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OF

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FOR THE

ADVANCEMENT OF SCIENCE,

FOR THE THIRTY-FOURTH MEETING,

HELD AT

ANN ARBOR, MICH.

AUGUST, 1885.

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FREDERICK W. PUTNAM,

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MEETING.	DATE.	PLACE.	CHAIRMAN.	SECRETARY.	ASSIS'T SEC'Y.	TREASURER.
1st	April 2, 1840,	Philadelphia,	Edward Hitchcock,*	L. C. Beck,*		
2d	April 5, 1841,	Philadelphia,	Benjamin Silliman,*	L. C. Beck,*	B. Silliman, jr.,* C. B. Trego,	
3d	April 25, 1842,	Boston,	S. G. Morton,*	C. T. Jackson,*	J. D. Whitney, M. B. Williams,	
4th	April 26, 1843,	Albany,	Henry D. Rogers,*	B. Silliman, jr.,*		John Locke.*
5th	May 8, 1844,	Washington,	John Locke,*	B. Silliman, jr.,* O. P. Hubbard,		Douglas Houghton.*
6th	April 30, 1845,	New Haven,	Wm. B. Rogers,*	B. Silliman, jr.,* J. Lawrence Smith,*		Douglas Houghton.*
7th	Sept. 2, 1846,	New York,	C. T. Jackson,*	B. Silliman, jr.,*		E. C. Herrick.*
8th	Sept. 20, 1847,	Boston,	Wm. B. Rogers,†*	Jeffries Wyman,*		B. Silliman, jr.*

* Deceased.

† Professor ROGERS, as chairman of this last meeting, called the first meeting of the new Association to order and presided until it was fully organized by the adoption of a constitution. As he was thus the first presiding officer of the new Association, it was directed at the Hartford meeting that his name be placed at the head of the Past Presidents of the American Association for the Advancement of Science.

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MEETING.	DATE.	PLACE.	PRESIDENT.	VICE-PRESIDENT.	GENERAL SECRETARY.	PERMANENT SEC'Y.	TREASURER.
1st	Sept. 20, 1848,	Philadelphia, Pa.,	W. C. Redfield,*		Walter R. Johnson,*		Jeffries Wyman.*
2d	Aug. 14, 1849,	Cambridge, Mass.,	Joseph Henry,*		E. N. Horsford, 1		A. L. Elwyn.*
3d	Mar. 12, 1850,	Charleston, S. C.,	A. D. Bache,* 2		L. R. Gibbs, 3		St. J. Ravenel.* 4
4th	Aug. 19, 1850,	New Haven, Conn.,	A. D. Bache,*		E. C. Herrick,*		A. L. Elwyn.*
5th	May 5, 1851,	Cincinnati, Ohio,	A. D. Bache,*		W. B. Rogers, 5*	S. F. Baird,	S. F. Baird. 6
6th	Aug. 19, 1851,	Albany, N. Y.,	Louis Agassiz,*		W. B. Rogers,	S. F. Baird,	A. L. Elwyn.*
7th	July 28, 1853,	Cleveland, Ohio,	Benjamin Pierce,		S. St. John, 7	S. F. Baird,	A. L. Elwyn.*
8th	April 26, 1854,	Washington, D. C.,	J. D. Dana,		J. Lawrence Smith,*	Joseph Lovering,	J. L. LeConte* 8
9th	Aug. 15, 1855,	Providence, R. I.,	John Torrey,*		Wolcott Gibbs,	Joseph Lovering,	A. L. Elwyn.*
10th	Aug. 20, 1856,	Albany, N. Y.,	James Hall,		B. A. Gould,	Joseph Lovering,	A. L. Elwyn.*
11th	Aug. 12, 1857,	Montreal, Canada,	Alexis Caswell,* 9	Alexis Caswell,*	John L. LeConte,*	Joseph Lovering,	A. L. Elwyn.*
12th	April 28, 1858,	Baltimore, Md.,	Alexis Caswell,* 10	John E. Holbrook,*†	W. M. Gillespie,* 11	Joseph Lovering,	A. L. Elwyn.*
13th	Aug, 3, 1859,	Springfield, Mass.,	Stephen Alexander,*	Edward Hitchcock,*	William Chauvenet,*	Joseph Lovering,	A. L. Elwyn.*
14th	Aug. 1, 1860,	Newport, R. I.,	Isaac Lea,	B. A. Gould,	Joseph LeConte,	Joseph Lovering,	A. L. Elwyn.*
15th	Aug. 15, 1866,	Buffalo, N. Y.,	F. A. P. Barnard,	A. A. Gould,* 12	Elias Loomis, 13	Joseph Lovering,	A. L. Elwyn.†*
16th	Aug. 21, 1867,	Burlington, Vt.,	J. S. Newberry,	Wolcott Gibbs,	C. S. Lyman,	Joseph Lovering,	A. L. Elwyn.†*
17th	Aug. 5, 1868,	Chicago, Ill.,	B. A. Gould,	Charles Whittlesey,	Simon Newcomb, 14	Joseph Lovering,	A. L. Elwyn.†*
18th	Aug. 18, 1869,	Salem, Mass.,	J. W. Foster,*	O. N. Rood,	O. C. Marsh,	F. W. Putnam, 15	A. L. Elwyn.†*
19th	Aug. 17, 1870,	Troy, N. Y.,	T. S. Hunt, 16	T. S. Hunt,	F. W. Putnam, 17	Joseph Lovering,	A. L. Elwyn.†*
20th	Aug. 16, 1871,	Indianapolis, Ind.,	Asa Gray,	G. F. Barker,	F. W. Putnam,	Joseph Lovering,	W. S. Vaux.*
21st	Aug. 15, 1872,	Dubuque, Iowa,	J. Lawrence Smith,*	Alex. Winchell,	E. S. Morse,	Joseph Lovering,	W. S. Vaux.*
22d	Aug. 20, 1873,	Portland, Me.,	Joseph Lovering,	A. H. Worthen,†	C. A. White,	F. W. Putnam,	W. S. Vaux.*
23d	Aug. 12, 1874,	Hartford, Conn.,	J. L. LeConte,*	C. S. Lyman,	A. C. Hamlin,	F. W. Putnam,	W. S. Vaux.†*

1. In place of Jeffries Wyman, *not present.*
2. In place of Joseph Henry, *not present.*
3. In place of E. C. Herrick, *not present.*
4. In place of A. L. Elwyn, *not present.*
5. In place of E. C. Herrick, *not present.*
6. In place of A. L. Elwyn, *not present.*
7. In place of J. D. Dana, *not present.*
8. In place of A. L. Elwyn, *not present.*
9. In place of J. W. Bailey, *deceased.*
10. In place of Jeffries Wyman, *not present.*
11. In place of Wm. Chauvenet, *not present.*
12. In place of R. W. Gibbes, *not present.*
13. In place of W. P. Trowbridge, *not present.*
14. In place of A. P. Rockwell, *called home 1st day.*
15. In place of Joseph Lovering, *in Europe.*
16. In place of Wm. Chauvenet, *too ill to be present.*
17. In place of C. F. Hartt, *in Brazil.*

* Deceased. † Not present at the meeting.

MEETINGS AND OFFICERS OF THE ASSOCIATION (*Continued*).

MEETING.	DATE.	PLACE.	PRESIDENT.	VICE PRESIDENT, SECTION A.	VICE PRESIDENT, SECTION B.	CHAIRMAN OF PERMANENT SUBSECTION OF CHEMISTRY.	CHAIRMAN OF PERMANENT SUBSECTION OF ANTHROPOLOGY.	CHAIRMAN OF PERMANENT SUBSECTION OF MICROSCOPY.	CHAIRMAN OF PERMANENT SUBSECTION OF ENTOMOLOGY.
24th	Aug. 11, 1875.	Detroit, Mich.,	J. E. Hilgard,	H. A. Newton,	J. W. Dawson,	S. W. Johnson,	L. H. Morgan,*	———	———
25th	Aug. 23, 1876.	Buffalo, N. Y.,	W. B. Rogers,*	C. A. Young,	E. S. Morse,	G. F. Barker,	L. H. Morgan,*	R. H. Ward,	———
26th	Aug. 29, 1877.	Nashville, Tenn.,	S. Newcomb,	R. H. Thurston,[1]	O. C. Marsh,	N. T. Lupton,	Daniel Wilson,†	R. H. Ward,	———
27th	Aug. 21, 1878.	St. Louis, Mo.,	O. C. Marsh,	R. H. Thurston,	Aug. R. Grote,	F. W. Clarke,	———[2]	R. H. Ward,[3]	———
28th	Aug. 27, 1879.	Saratoga, N. Y.,	G. F. Barker,	S. P. Langley,	J. W. Powell,	F. W. Clarke,[4]	Daniel Wilson,	E. W. Morley,	———
29th	Aug. 25, 1880.	Boston, Mass.,	L. H. Morgan,*	Asaph Hall,	Alex. Agassiz,	J. M. Ordway,	J. W. Powell,	S. A. Lattimore,	———
30th	Aug. 17, 1881.	Cincinnati, Ohio,	G. J. Brush,	Wm. Harkness,[7]	E. T. Cox,[8]	G. C. Caldwell,[9]	G. Mallery,	A. B. Hervey,	J. G. Morris.

PERMANENT SECRETARY.	GENERAL SECRETARY.	SECRETARY OF SECTION A.	SECRETARY OF SECTION B.	SECRETARY OF PERMANENT SUBSECTION OF CHEMISTRY.	SECRETARY OF PERMANENT SUBSECTION OF ANTHROPOLOGY.	SECRETARY OF PERMANENT SUBSECTION OF MICROSCOPY.	SECRETARY OF PERMANENT SUBSECTION OF ENTOMOLOGY.	TREASURER.
F. W. Putnam,	S. H. Scudder,	S. P. Langley, T. C. Mendenhall,	E. S. Morse,	F. W. Clarke,	F. W. Putnam,	———	———	W. S. Vaux.*
F. W. Putnam,	T. C. Mendenhall,	A. W. Wright,	Albert H. Tuttle,	H. C. Bolton,	O. T. Mason,	E. W. Morley,	———	W. S. Vaux.*
F. W. Putnam,	Aug. R. Grote,	H. C. Bolton,	Wm. H. Dall,	P. Schweitzer,	———[2]	T. O. Summers, jr.,	———	W. S. Vaux.†*
F. W. Putnam,	H. C. Bolton,	F. E. Nipher,	George Little,	A. P. S. Stuart,	———[2]	G. J. Engelmann,	———	W. S. Vaux.†*
F. W. Putnam,	H. C. Bolton,[5]	J. K. Rees,	W. H. Dall,[6]	W. R. Nichols,	J. G. Henderson,	A. B. Hervey,	———	W. S. Vaux.†*
F. W. Putnam,	J. K. Rees,	H. B. Mason,	C. V. Riley,	C. E. Munroe,	J. G. Henderson,	A. B. Hervey,	———	W. S. Vaux.*
F. W. Putnam,	C. V. Riley,	E. T. Tappan,[10]	Wm. Saunders,	A. Springer,[12]	J. G. Henderson,	W. H. Seaman,[11]	B. P. Mann,	W. S. Vaux.†*

[1] In the absence of E. C. Pickering.
[2] The Subsection united with Sec. B.
[3] In the absence of G. S. Blackie.
[4] In the absence of Ira Remsen.
[5] In the absence of George Little.
[6] In the absence of A. C. Wetherby.
[7] In the absence of A. M. Mayer.
[8] In the absence of George Engelmann.
[9] In the absence of W. R. Nichols.
[10] In the absence of John Trowbridge.
[11] In the absence of S. P. Sharples.
[12] In place of H. W. Wiley, called away.
* Deceased.
† Not present.

MEETINGS AND OFFICERS OF THE ASSOCIATION. (*Continued.*)

MEETING.	DATE.	PLACE.	PRESIDENT.	VICE PRESIDENTS.				
				Section A.	Section B.	Section C.	Section D.	Section E.
31st	Aug. 23, 1882.	Montreal, Can.	J. W. Dawson,	W. A. Rogers,[1]	T.C. Mendenhall,	H. C. Bolton,	W. P.Trowbridge,	E. T. Cox,
32nd	Aug. 15, 1883.	Minneapolis, M.	C. A. Young,	W. A. Rogers,	H. A. Rowland,	E. W. Morley,	De Volsen Wood,[7]	C.H. Hitchcock,
33rd	Sept. 3, 1884.	Philadelphia, Pa.	J. P. Lesley,	H. T. Eddy,	J. Trowbridge,	J. W. Langley,	R. H. Thurston,	N. H. Winchell,

VICE PRESIDENTS.				Permanent Secretary.	General Secretary.	Assistant Gen. Secretary.	SECRETARIES OF SECTIONS.	
Section F.	Section G.	Section H.	Section I.				Section A.	Section B.
W. H. Dall,	A. H. Tuttle,	Alex. Winchell,[2]	E. B. Elliott,	F. W. Putnam,	Wm. Saunders,	J. R. Eastman,	H. T. Eddy,	C. S. Hastings,
W. J. Beal,	J. D. Cox,	O. T. Mason,	F. B. Hough,	F. W. Putnam,	J. R. Eastman,	Alfred Springer,	G. W. Hough,[8]	F. E. Nipher,[9]
E. D. Cope,	T. G. Wormley,	E. S. Morse,	John Eaton,	F. W. Putnam,	Alfred Springer,	C. S. Minot,[12]	G. W. Hough,	N. D. C. Hodges,

SECRETARIES OF THE SECTIONS.							Treasurer.
Section C.	Section D.	Section E.	Section F.	Section G.	Section H.	Section I.	
Alfred Springer,	J. B. Webb,[3]	H. S. Williams,[4]	Wm. Osler,[5]	Robt. Brown, jr.,	O. T. Mason,	F. B. Hough,[6]*	——————*
J. W. Langley,[10]	J. B. Webb,[11]	A. A. Julien,	S. A. Forbes,	Carl Seiler,	G. H. Perkins,	Jos. Cummings,	William Lilly.
H. Carmichael,[13]	J. B. Webb,	E. A. Smith,	C. E. Bessey,	R. Hitchcock,	G. H. Perkins,[14]	C. W. Smiley,	William Lilly.

1 In the absence of William Harkness.
2 In the absence of Daniel Wilson.
3 In the absence of C. B. Dudley.
4 In the absence of C. E. Dutton.
5 In the absence of C. S. Minot.
6 F. B. Hough was called home and J. R. Dodge acted at the close of the meeting.
7 Absent but place was not filled.
8 In the absence of W. W. Johnson.
9 In the absence of C. K. Wead.
*Deceased
10 W. M. McMurtrie, last three days of meeting.
11 Pro tempore.
12 In the absence of E. S. Holden.
13 In the absence of R. B. Warder.
14 In the absence of W. H. Holmes.

COMMONWEALTH OF MASSACHUSETTS.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND SEVENTY-FOUR.

AN ACT

To Incorporate the "American Association for the Advancement of Science."

Be it enacted by the Senate and House of Representatives, in General Court assembled, and by the authority of the same, as follows:

Section 1. Joseph Henry of Washington, Benjamin Pierce of Cambridge, James D. Dana of New Haven, James Hall of Albany, Alexis Caswell of Providence, Stephen Alexander of Princeton, Isaac Lea of Philadelphia, F. A. P. Barnard of New York, John S. Newberry of Cleveland, B. A. Gould of Cambridge, T. Sterry Hunt of Boston, Asa Gray of Cambridge, J. Lawrence Smith of Louisville, Joseph Lovering of Cambridge and John LeConte of Philadelphia, their associates, the officers and members of the Association, known as the "American Association for the Advancement of Science," and their successors, are hereby made a corporation by the name of the "American Association for the Advancement of Science," for the purpose of receiving, purchasing, holding and conveying real and personal property, which it now is, or hereafter may be, possessed of, with all the powers and privileges, and subject to the restrictions, duties and liabilities set forth in the general laws which now or hereafter may be in force and applicable to such corporations.

Section 2. Said corporation may have and hold by purchase, grant, gift or otherwise, real estate not exceeding one hundred thousand dollars in value, and personal estate of the value of two hundred and fifty thousand dollars.

Section 3. Any two of the corporators above named are hereby authorized to call the first meeting of the said corporation in the month of August next ensuing, by notice thereof "by mail," to each member of the said Association.

Section 4. This act shall take effect upon its passage.

House of Representatives, March 10, 1874.
Passed to be enacted,
John E. Sanford, *Speaker.*

In Senate, March 17, 1874.
Passed to be enacted,
Geo. B. Loring, *President.*

March 19, 1874.
Approved,
W. B. Washburn.

Secretary's Department,
Boston, April 3, 1874.
A true copy, Attest:
David Pulsifer,
Deputy Secretary of the Commonwealth.

CONSTITUTION

OF THE

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

Incorporated by Act of the General Court of the Commonwealth of Massachusetts.

OBJECTS.

ARTICLE 1. The objects of the Association are, by periodical and migratory meetings, to promote intercourse between those who are cultivating science in different parts of America, to give a stronger and more general impulse and more systematic direction to scientific research, and to procure for the labors of scientific men increased facilities and a wider usefulness.

MEMBERS, FELLOWS, PATRONS AND HONORARY FELLOWS.

ART. 2. The Association shall consist of Members, Fellows, Patrons, and Honorary Fellows.

ART. 3. Any person may become a Member of the Association upon recommendation in writing by two members or fellows, nomination by the Standing Committee, and election by a majority of the members and fellows present in General Session.

ART. 4. Fellows shall be nominated by the Standing Committee from such of the members as are professionally engaged in science, or have by their labors aided in advancing science. The election of fellows shall be by ballot and a majority vote of the members and fellows present in General Session.

ART. 5. Any person paying to the Association the sum of one thousand dollars shall be classed as a Patron, and shall be entitled to all the privileges of a member and to all its publications.

ART. 6. Honorary Fellows of the Association, not exceeding three for each section, may be elected; the nominations to be made by the Standing Committee and approved by ballot in the respective sections before election by ballot in General Session. Honorary Fellows shall be entitled to all the privileges of fellows and shall be exempt from all fees and assessments, and entitled to all publications of the Association issued after the date of their election.

COMMONWEALTH OF MASSACHUSETTS.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND SEVENTY-FOUR.

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Approved,
W. B. Washburn.

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Boston, April 3, 1874.
A true copy, Attest:
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ART. 7. The name of any member or fellow two years in arrears for annual dues shall be erased from the list of the Association, provided that two notices of indebtedness, at an interval of at least three months, shall have been given; and no such person shall be restored until he has paid his arrearages or has been reëlected. The Standing Committee shall have power to exclude from the Association any member or fellow, on satisfactory evidence that said member or fellow is an improper person to be connected with the Association, or has in the estimation of the Committee made improper use of his membership or fellowship.

ART. 8. No member or fellow shall take part in the organization of, or hold office in, more than one section at any one meeting.

OFFICERS.

ART. 9. The Officers of the Association shall be elected by ballot in General Session from the fellows, and shall consist of a President, a Vice President from each section, a Permanent Secretary, a General Secretary, an Assistant General Secretary, a Treasurer, and a Secretary of each Section; these, with the exception of the Permanent Secretary, shall be elected at each meeting for the following one, and, with the exception of the Treasurer and the Permanent Secretary, shall not be reëligible for the next two meetings. The term of office of Permanent Secretary shall be five years.

ART. 10. The President, or, in his absence, the senior Vice President present, shall preside at all General Sessions of the Association and at all meetings of the Standing Committee. It shall also be the duty of the President to give an address at a General Session of the Association at the meeting following that over which he presided.

ART. 11. The Vice Presidents shall be the chairmen of their respective Sections, and of their Sectional Committees, and it shall be part of their duty to give an address, each before his own section, at such time as the Standing Committee shall determine. The Vice Presidents may appoint temporary chairmen to preside over the sessions of their sections, but shall not delegate their other duties. The Vice Presidents shall have seniority in order of their continuous membership in the Association.

ART. 12. The General Secretary shall be the Secretary of all General Sessions of the Association, and shall keep a record of the business of these sessions. He shall receive the records from the Secretaries of the

Sections, which, after examination, he shall transmit with his own records to the Permanent Secretary within two weeks after the adjournment of the meeting. He shall receive proposals for membership and bring them before the Standing Committee.

ART. 13. The Assistant General Secretary shall be the Secretary of the Standing Committee. He shall give to the Secretary of each Section the titles of papers assigned to it by the Standing Committee.

ART. 14. The Permanent Secretary shall be the executive officer of the Association under the direction of the Standing Committee. He shall attend to all business not specially referred to committees nor otherwise constitutionally provided for. He shall keep an account of all business that he has transacted for the Association, and make annually a general report for publication in the annual volume of Proceedings. He shall attend to the printing and distribution of the annual volume of Proceedings, and all other printing ordered by the Association. He shall issue a circular of information to members and fellows at least three months before each meeting, and shall, in connection with the Local Committee, make all necessary arrangements for the meetings of the Association. He shall provide the Secretaries of the Association with such books and stationery as may be required for their records and business, and shall provide members and fellows with such blank forms as may be required for facilitating the business of the Association. He shall collect all assessments and admission fees, and notify members and fellows of their election, and of any arrearages. He shall receive, and bring before the Standing Committee, the titles and abstracts of papers proposed to be read before the Association. He shall keep an account of all receipts and expenditures of the Association, and report the same annually at the first meeting of the Standing Committee, and shall pay over to the Treasurer such unexpended funds as the Standing Committee may direct. He shall receive and hold in trust for the Association all books, pamphlets and manuscripts belonging to the Association, and allow the use of the same under the provisions of the Constitution and the orders of the Standing Committee. He shall receive all communications addressed to the Association during the interval between meetings, and properly attend to the same. He shall at each meeting report the names of fellows and members who have died since the preceding meeting. He shall be allowed a salary which shall be determined by the Standing Committee, and may employ one or more clerks at such compensation as may be agreed upon by the Standing Committee.

ART. 15. The Treasurer shall invest the funds received by him in such securities as may be directed by the Standing Committee. He shall annually present to the Standing Committee an account of the funds in his charge. No expenditure of the principal in the hands of the Treasurer shall be made without a unanimous vote of the Standing Committee, and no expenditure of the income received by the Treasurer shall be made without a two-thirds vote of the Standing Committee.

ART. 16. The Secretaries of the Sections shall keep the records of their respective sections, and, at the close of the meeting, give the same, including the records of subsections, to the General Secretary. They shall also be the Secretaries of the Sectional Committees. The Secretaries shall have seniority in order of their continuous membership in the Association.

ART. 17. In case of a vacancy in the office of the President, one of the Vice Presidents shall be elected by the Standing Committee as the President of the meeting. Vacancies in the offices of Vice President, Permanent Secretary, General Secretary, Assistant General Secretary, and Treasurer, shall be filled by nomination of the Standing Committee and election by ballot in General Session. A vacancy in the office of Secretary of a Section shall be filled by nomination and election by ballot in the Section.

ART. 18. The Standing Committee shall consist of the past Presidents, and the Vice Presidents of the last meeting, together with the President, the Vice Presidents, the Permanent Secretary, the General Secretary, the Assistant General Secretary, the Secretaries of the Sections, and the Treasurer of the current meeting, with the addition of one fellow elected from each Section by ballot on the first day of its meeting. The members present at any regularly called meeting of the Committee, provided there are at least five, shall form a quorum for the transaction of business. The Standing Committee shall meet on the day preceding each annual meeting of the Association, and arrange the programme for the first day of the sessions. The time and place of this first meeting shall be designated by the Permanent Secretary. Unless otherwise agreed upon, regular meetings of the Committee shall be held in the committee room at 9 o'clock, A. M., on each day of the meeting of the Association. Special meetings of the Committee may be called at any time by the President. The Standing Committee shall be the board of supervision of the Association, and no business shall be transacted by the Association that has not first been referred to, or originated with, the Committee. The Committee shall receive and assign papers to the respective sections; examine and, if necessary, exclude papers; decide which papers, discussions and other

proceedings shall be published, and have the general direction of the publications of the Association; manage the financial affairs of the Association; arrange the business and programmes for General Sessions; suggest subjects for discussion, investigation or reports; nominate members and fellows; and receive and act upon all invitations extended to the Association and report the same at a General Session of the Association.

ART. 19. The Nominating Committee shall consist of the Standing Committee, and one member or fellow elected by each of the Sections. It shall be the duty of this Committee to meet at the call of the President and nominate the general officers for the following meeting of the Association. It shall also be the duty of this Committee to recommend the time and place for the next meeting. The Vice President and Secretary of each Section shall be recommended to the Nominating Committee by a sub-committee consisting of the Vice President, Secretary, and three members or fellows elected by the Section.

MEETINGS.

ART. 20. The Association shall hold a public meeting annually, for one week or longer, at such time and place as may be determined by vote of the Association, and the preliminary arrangements for each meeting shall be made by the Local Committee, in conjunction with the Permanent Secretary and such other persons as the Standing Committee may designate.

ART. 21. General Sessions shall be held at 10 o'clock, A. M., unless otherwise ordered, on every day of the meeting, Sunday excepted, and at such other times as may be appointed by the Standing Committee.

SECTIONS AND SUBSECTIONS.

ART. 22. The Association shall be divided into nine Sections, namely:— A, *Mathematics and Astronomy;* B, *Physics;* C, *Chemistry, including its application to agriculture and the arts;* D, *Mechanical Science;* E, *Geology and Geography;* F, *Biology;* G, *Histology and Microscopy;* H, *Anthropology;* I, *Economic Science and Statistics.* The Standing Committee shall have power to consolidate any two or more Sections temporarily, and such consolidated Sections shall be presided over by the senior Vice President and Secretary of the Sections comprising it.

ART. 23. Immediately on the organization of a Section there shall be three fellows elected by ballot after open nomination, who, with the Vice President and Secretary, shall form its Sectional Committee. The Sectional Committees shall have power to fill vacancies in their own numbers. Meetings of the Sections shall not be held at the same time with a General Session.

ART. 24. The Sectional Committee of any Section may at its pleasure form one or more temporary Subsections, and may designate the officers thereof. The Secretary of a Subsection shall, at the close of the meeting, transmit his records to the Secretary of the Section.

ART. 25. A paper shall not be read in any Section nor Subsection until it has been received from the Standing Committee and placed on the programme of the day by the Sectional Committee.

SECTIONAL COMMITTEES.

ART. 26. The Sectional Committees shall arrange and direct the business of their respective Sections. They shall prepare the daily programmes and give them to the Permanent Secretary for printing at the earliest moment practicable. No titles of papers shall be entered on the daily programmes except such as have passed the Standing Committee. No change shall be made in the programme for the day in a Section without the consent of the Sectional Committee. The Sectional Committees may refuse to place the title of any paper on the programme; but every such title, with the abstract of the paper or the paper itself, must be returned to the Standing Committee with the reasons why it was refused.

ART. 27. The Sectional Committees shall examine all papers and abstracts referred to the sections, and they shall not place on the programme any paper inconsistent with the character of the Association; and to this end they have power to call for any paper, the character of which may not be sufficiently understood from the abstract submitted.

PAPERS AND COMMUNICATIONS.

ART. 28. All members and fellows must forward to the Permanent Secretary, as early as possible, and when practicable before the convening of the Association, full titles of all the papers which they propose to present during the meeting, with a statement of the time that each will occupy in delivery, and also such abstracts of their contents as will give a general idea of their nature; and no title shall be referred by the Standing Committee to the Sectional Committee until an abstract of the paper or the paper itself has been received.

ART. 29. If the author of any paper be not ready at the time assigned, the title may be dropped to the bottom of the list.

ART. 30. Whenever practicable, the proceedings and discussions at General Sessions, Sections and Subsections shall be reported by professional reporters, but such reports shall not appear in print as the official reports of the Association unless revised by the Secretaries.

Printed Proceedings.

Art. 31. The Permanent Secretary shall have the Proceedings of each meeting printed in an octavo volume as soon after the meeting as possible, beginning one month after adjournment. Authors must prepare their papers or abstracts ready for the press and forward them to the Permanent Secretary within this interval, otherwise only the abstracts or titles taken from the "title blanks" will appear in the printed volume. The Standing Committee shall have power to order the printing of any paper by abstract or title only. Whenever practicable, proofs shall be forwarded to authors for revision. If any additions or substantial alterations are made by the author of a paper after its submission to the Secretary, the same shall be distinctly indicated. Illustrations must be provided for by the authors of the papers, or by a special appropriation from the Standing Committee. Immediately on publication of the volume, a copy shall be forwarded to every member and fellow of the Association who shall have paid the assessment for the meeting to which it relates, and it shall also be offered for sale by the Permanent Secretary at such price as may be determined by the Standing Committee. The Standing Committee shall also designate the institutions to which copies shall be distributed.

Local Committee.

Art. 32. The Local Committee shall consist of persons interested in the objects of the Association and residing at or near the place of the proposed meeting. It is expected that the Local Committee, assisted by the officers of the Association, will make all essential arrangements for the meeting, and issue a circular giving necessary particulars, at least one month before the meeting.

Library of the Association.

Art. 33. All books and pamphlets received by the Association shall be in the charge of the Permanent Secretary, who shall have a list of the same printed and shall furnish a copy to any member or fellow on application. Members and fellows who have paid their assessments in full shall be allowed to call for books and pamphlets, which shall be delivered to them at their expense, on their giving a receipt agreeing to make good any loss or damage and to return the same free of expense to the Secretary at the time specified in the receipt given. All books and pamphlets in circulation must be returned at each meeting. Not more than five books, including volumes, parts of volumes, and pamphlets, shall be held at one time by any member or fellow. Any book may be withheld from circulation by order of the Standing Committee.

Admission Fee and Assessments.

Art. 34. The admission fee for members shall be five dollars in addition to the annual assessment. On the election of any member as a fellow an additional fee of two dollars shall be paid.

Art. 35. The annual assessment for members and fellows shall be three dollars.

Art. 36. Any member or fellow who shall pay the sum of fifty dollars to the Association, at any one time, shall become a Life Member and as such shall be exempt from all further assessments, and shall be entitled to the Proceedings of the Association. All money thus received shall be invested as a permanent fund, the income of which shall be used only to assist in original research, unless otherwise directed by unanimous vote of the Standing Committee.

Art. 37. All admission fees and assessments must be paid to the Permanent Secretary, who shall give proper receipts for the same.

Accounts.

Art. 38. The accounts of the Permanent Secretary and of the Treasurer shall be audited annually, by Auditors appointed by the Standing Committee.

Alterations of the Constitution.

Art. 39. No part of this Constitution shall be amended or annulled, without the concurrence of three-fourths of the members and fellows present in General Session, after notice given at a General Session of a preceding meeting of the Association.

ORDER OF PROCEEDINGS IN ORGANIZING A MEETING.

1. The retiring President introduces the President elect, who takes the chair.
2. Formalities of welcome of the Association as may be arranged by the Local Committee.
3. Report of the list of papers entered and their reference to the Sections.
4. Other reports.
5. Announcements of arrangements by the Local Committee.
6. Election of members.
7. Election of fellows.
8. Unenumerated business.
9. Adjournment to meet in Sections.

This order, so far as applicable, to be followed in subsequent General Sessions.

MEMBERS

OF THE

AMERICAN ASSOCIATION.

FOR THE

ADVANCEMENT OF SCIENCE.[1]

PATRON.[2]

THOMPSON, MRS. ELIZABETH, Stamford, Conn. (22).
LILLY, GEN. WILLIAM, Mauch Chunk, Carbon Co., Pa. (28).
HERRMAN, MRS. ESTHER, 59 West 56th St., New York, N. Y. (29).

MEMBERS.[3]

Aaron, Eugene M., P. O. Box 916, Philadelphia, Pa. (33).
Abbot, Griffith Evans, M.D., Falls of Schuylkill, Philadelphia, Pa. (33).
Abbott, Helen C. DeS., 1509 Locust St., Philadelphia, Pa. (33).
Abert, Col. James W., Newport, Ky. (31).
Abert, S. Thayer, 1907 Pennsylvania Avenue, Washington, D. C. (30).
Adams, Frank, 41 McGill College Avenue, Montreal, Can. (29).
Adams, John S., M. D., Oakland, Cal. (29).
Adams, Capt. Robert C., Montreal, Can. (31).
Agard, Dr. A. H., 1259 Alice St., Oakland, Alameda Co., Cal. (28).
Agnew, Dr. Cornelius R., 266 Madison Ave., New York, N. Y. (32).

[1] The numbers in parentheses indicate the meeting at which the member was elected. The Constitution requires that the names of all members two or more years in arrears shall be omitted from the list, but their names will be restored on payment of arrearages. Members not in arrears are entitled to the annual volume of Proceedings bound in paper. *The payment of ten dollars at one time entitles a member to the subsequent volumes bound in cloth, or by the payment of twenty dollars, to the volumes bound in half morocco.*

[2] Persons contributing one thousand dollars or more to the Association are classed as Patrons, and are entitled to the privileges of members and to the publications.

The names of Patrons are to remain permanently on the list.

[3] Any Member or Fellow may become a Life Member by the payment of fifty dollars. The money derived from Life Memberships is invested as a fund, the income of which is to be used only to aid in original research. Life Members are exempt from the annual assessment, and are entitled to the annual volume. The names of Life Members are printed in small capitals in the regular list of Members and Fellows.

Aher, Mrs. Mary R. Alling, care Rev. H. Alling, South Cairo, Greene Co., N. Y. (29).
Ainslie, Charles N., Rochester, Minn. (32).
Alden, Prof. Geo. I., Worcester, Mass. (33).
Alexander, Miss Jane, Jamaica Plain, Mass. (33).
Allderdice, Wm. H., U. S. Navy, care Navy Dep't, Washington, D. C. (33).
Allen, Edmund T., 404 Market St., St. Louis, Mo. (27).
Allen, J. M., Hartford, Conn. (22).
Allen, Jno. R., Linwood, Del. Co., Pa. (33).
Alling, J. C., Hasbrouck Institute, 109 Grand St., Jersey City, N. J. (31).
Allison, Henry, Fort Worth, Texas (32).
Alvord, Benj., Lieut. U. S. A., Fort Hays, Kan. (33).
Anderson, Newton M., Columbus, Ohio (30).
Andrews, L. W., Ph. D., Springfield, Mass. (31).
Ansley, Clark F., Swedona, Mercer Co., Ill. (32).
Antisell, Thomas, M.D., 1311 Q St., Washington, D. C. (33).
Appleton, Rev. Edw. W., D.D., Ashbourne P. O., Montgomery Co., Pa. (28).
Apthorp, Henry, Ashtabula, Ohio (32).
Archambault, U. E., P. O. Box 1944, Montreal, Can. (31).
Armstrong, Lucius H., St. Nicholas, Duval Co., Fla. (30).
Armstrong, Mrs. Lucius H., St. Nicholas, Duval Co., Fla. (30).
Arnold, Lauren B., Rochester, N. Y. (30).
Atkinson, Jno. B., Earlington, Hopkins Co., Ky. (26).
Atwater, Richard M., Millville, N. J. (29).
Atwood, E. S., East Orange, N. J. (29).
Atwood, Oscar, Rutland, Vt. (31).
Auchincloss, Wm. S., 209 Church St., Philadelphia, Pa. (29).
Aughey, Prof. Samuel, Univ. of Nebraska, Lincoln, Neb. (29).
Austin, Miss Mary, Mattapan Station, Milton, Mass. (31).
Avila, A. F. de, Ithaca, N. Y. (33).
Ayres, Prof. Brown, Tulane University, New Orleans, La. (31).
Ayres, Dr. S. C., 64 W. 7th St., Cincinnati, Ohio (30).

Babbit, John, Fredericton, N. B. (29).
Babbitt, Miss Franc E., P. O. Box 75, Little Falls, Morrison Co., Minn. (32).
Babcock, Geo. H., 30 Cortlandt St., New York, N. Y. (33).
Babcock, S. Moulton, N. Y. Agric. Experiment Station, Geneva, N. Y. (33).
Bailey, E. H. S., Lawrence, Douglas Co., Kan. (25).
Baker, Frank, M. D., 326 C St., N. W., Washington, D. C. (31).
Baker, Prof. I. O., Illinois Industrial Univ., Champaign, Ill. (30).
Baker, Richard D., 1414 Arch St., Philadelphia, Pa. (33).
Baker, Prof. T. R., Millersville, Lancaster Co., Pa. (22).
Balderston, C. Canby, Westtown, Chester Co., Pa. (33).

Baldwin, Miss Mary A., Summer Ave., Cor. Kearney St., Newark, N. J. (31).
Baldwin, Very Rev. Dean Maurice S., Montreal, Can. (31).
Balen, Abraham D., Plainfield, N. J. (31).
Ballard, Harlan H., Lenox, Mass. (31).
Ballou, Wm. Hosea, 120 Broadway, New York, N. Y. (29).
Banes, Charles H., 2416 Spring Garden St., Philadelphia, Pa. (31).
Baptie, George, Normal School, Ottawa, Ontario, Can. (29).
Barber, John N., Minneapolis, Minn. (33).
Bardeen, Francis L., M. D., Washington College, Chestertown, Md. (32).
Barge, B. F., Mauch Chunk, Pa. (33).
Barker, Mrs. Martha M., care of H. R. Barker, 8 and 10 Central St., Lowell, Mass. (31).
Barnes, Charles J. (27).
Barnes, Prof. Chas. R., 297 Columbia St., Lafayette, Ind. (33).
Barns, Carl, Ph.D., National Museum, Washington, D. C. (33).
Bartlett, Dr. Homer L., Flatbush, L. I. (28).
Bartley, Elias H., M.D., 401 Pacific St., Brooklyn, N. Y. (33).
Bassett, Daniel A., Crawfordsville, Ind. (29).
Bassnett, Thomas, Box 936, Jacksonville, Fla. (8).
Bassnett, Mrs. Thomas, Box 936, Jacksonville, Fla. (24).
Bastian, Dr. David I., Clinton, Worcester Co., Mass. (25).
Bastin, Prof. E. S., Highland Park, Chicago, Ill. (29).
Batchelor, Charles, Electrician, Menlo Park, N. J. (28).
Bates, Henry Hobart, M.A., U. S. Patent Office, Washington, D. C. (33).
Batterson, J. G., Hartford, Conn. (23).
Battle, Herbert B., N. C. Agric. Experiment Station, Raleigh, N. C. (33).
Baylor, James B., U. S. C. and G. Survey Office, Washington, D. C. (33).
Bayne, Prof. Herbert A., Ph.D., Royal Military College, Kingston, Ont. (29).
Beach, Charles M., Merchant, Hartford, Conn. (23).
Beach, J. Watson, Merchant, Hartford, Conn. (23).
Beach, William H., Madison, Wis. (21).
Beadle, Delos W., St. Catharines, Ontario, Can. (31).
Beall, Thomas, Lindsay, Ontario, Can. (31).
Bean, Thos. E., Box 441, Galena, Ill. (28).
Beard, Richard O., M. D., 1221 Nicollet Ave., Minneapolis, Minn. (32).
Beardsley, Prof. Arthur, Swarthmore College, Swarthmore, Del. Co., Pa. (33).
Beatty, Prof. James, Jr., 92 Dugan's Wharf, Baltimore, Md. (33).
Beaudry, J. Alphonse U., 97 St. James St., Montreal, Can. (31).
Beauregard, Gen. Gustave T., 359 St. Charles Ave., New Orleans, La. (30).
Bechdolt, Adolphus F., Mankato, Minn. (32).
Belknap, Chas., Lieut. U. S. N., Annapolis, Md. (29).
Belknap, Morris B., Louisville, Ky. (29).

Belknap, Wm. B., Louisville, Ky. (29).
Bell, Alex. Melville, 1525 35th St., Washington, D. C. (31).
Bell, Chichester A., Washington, D. C. (33).
Bell, John J., Exeter, N. H. (22).
Bell, Thomas D., McGill College, Montreal, Can. (31).
Bemis, Hon. A. S., President of the Common Council, Buffalo, N. Y. (25).
Bemrose, Joseph, 158 P. O., Montreal, Can. (31).
Benjamin, E. B., 6 Barclay St., New York, N. Y. (19).
Benjamin, Marcus, 43 East 67th St., New York, N. Y. (27).
Bennett, Prof. Wm. Z., Wooster, Wayne Co., Ohio (33).
Berg, Walter G., Ass't Eng. Lehigh Valley R. R. Co., Mauch Chunk, Pa. [(33).
Best, Wm. F., 74 Germain St., St. John, N. B. (29).
Beveridge, David, 250 Hennepin Ave., Minneapolis, Minn. (33).
Bickmore, Mrs. Albert S., 12 East 41st St., New York, N. Y. (31).
Biddle, Wm. F., 209 So. 3rd St., Philadelphia, Pa. (33).
Bierstadt, Albert, Brevoort House, New York, N. Y. (28).
Bigelow, A. T., D. D. S., Bismarck, Dakota (32).
Bigelow, Otis, 1501 18th St., N. W., Washington, D. C. (30).
Bigelow, Robert P., 1501 18th St., N. W., Washington, D. C. (32).
Bill, Charles, Springfield, Mass. (17).
Bingham, Mrs. Martha A., Kansas City, Mo. (32).
Birge, Charles P., Keokuk, Iowa (29).
Blackwell, Mrs. A. B., Elizabeth, N. J. (30).
Blaisdell, F. E., Poway, San Diego Co., Cal. (29).
Blake, Mrs. Clarence J., 19 St. James Avenue, Boston, Mass. (29).
Blake, Francis C., Mansfield Valley P. O., Allegheny Co., Pa. (29).
Blakslee, Prof. T. M., Hamilton, N. Y. (31).
Blankenburg, Rudolph, 1326 Arch St., Philadelphia, Pa. (33).
Blatchford, Eliphalet W., 375 La Salle Ave., Chicago, Ill. (17).
Blish, W. G., Niles, Mich. (33).
Blitz, Adolph, M.D., Minneapolis, Minn. (32).
Blodget, Lorin, 1329 So. Broad St., Philadelphia, Pa. (33).
Blount, Henry F., Evansville, Vanderburg Co., Ind. (32).
Boardman, Miss E. D., 120 Beacon St., Boston, Mass. (29).
Boardman, Mrs. Wm. D., 38 Kenilworth St., Roxbury, Mass. (28).
Bocage, Miss Annie, Pine Bluff, Ark. (33).
Boerner, Chas. G., Vevay, Ind. (29).
Boice, Miss Carrie A., Camden, N. J. (33).
Bolles, Prof. Albert S., Univ. of Pa., Philadelphia, Pa. (33).
Bond, Geo. M., The Pratt and Whitney Co., Hartford, Conn. (33).
Bond, Geo. W., Boston, Mass. (29).
Bourke, John G., Capt. 3rd Cavalry, U. S. A., care Adj. Gen. U. S. A., Washington, D. C. (33).
Bourland, Dr. Addison M., Van Buren, Ark. (29).
Bowers, Miss Virginia K., Appeal Office, Memphis, Tenn. (27).
Bowles, Francis T., 1823 Jefferson Place, Washington, D. C. (33).
Bowles, George J., 1466 St. Catherine St., Montreal, Can. (31).

Bowles, Miss Margaretta, The Institute, Columbia, Tenn. (26).
Bowman, Chas. G., Lieut. U. S. N., Naval Observ., Washington, D. C. (33).
Bowser, Mrs. Anna C., 328 Third St., Louisville, Ky. (33).
Boyd, William, Cambridge, Mass. (29).
Boyè, M. H., Coopersburg, Lehigh Co., Pa. (33).
Boynton, Miss S. P., Box 150, Lynn, Mass. (19).
Brackett, Solomon H., St. Johnsbury, Vt. (29).
Bradford, Edward H., M.D., 150 Boylston St., Boston, Mass. (29).
Bradford, Royal B., Lt. Comd'r, U. S. N., care of Navy Dept., Washington, D. C. (31).
Braid, Andrew, Coast and Geodetic Survey Office, Washington, D. C. (33).
Braid, James W., Nashville, Tenn. (33).
Brainerd, Thos. C., P. O. Box 720, Montreal, Can. (31).
Braley, Sam'l T., Rutland, Vt. (33).
Bramwell, J. H., Roanoke, Va. (33).
Brashear, Jno. A., 3 Holt St., Pittsburg, S. S., Pa. (33).
Bray, Prof. C. D., College Hill, Mass. (29).
Brayton, Miss Sarah H., M. D., Evanston, Ill. (33).
Breckinridge, S. M., P. O. Box 2794, St. Louis, Mo. (27).
Breidenbaugh, Prof. E. S., Pennsylvania College, Gettysburg, Pa. (33).
Brice, Judge Albert G., 122 Gravier St., New Orleans, La. (32).
Bridges, Henry Seabury, M.A., University of New Brunswick, Fredericton, N. B. (33).
Bringhurst, Prof. W. L., Agric. and Mechan. College of Texas, College Station, Brazos Co., Texas (32).
Brinton, Daniel G., M. D., Media, Pa. (33).
Brinton, J. Bernard, M. D., 755 Corinthian Ave., Philadelphia, Pa. (33).
Brissette, Milton H., Montreal, Can. (31).
Bromfield, Rev. Edw. T., Glenbrook, Fairfield Co., Conn. (33).
Bronnson, W. H., Lt. Comd'r U. S. N., Yonkers, N. Y. (31).
Bronson, E. H., Ottawa, Ontario, Can. (31).
Brooks, Miss Margarette W., Salem, Mass. (29).
Broomall, Hon. John M., Media, Delaware Co., Pa. (23).
Brosius, Lewis W., Cochranville, Chester Co., Pa. (33).
Broun, Albert P., Ph. D., 501 Federal St., Camden, N. J. (33).
Brounell, Prof. Walter A., 125 University Ave., Syracuse, N. Y. (30).
Brown, Miss Anna, 528 West 7th St., Cincinnati, Ohio (31).
Brown, Arthur, C. E., Oakland, Alameda Co., Cal. (31).
Brown, Mrs. Ashley, 115 Wilkinson St., Dayton, Ohio (25).
Brown, Prof. C. J., Atlanta, Ga. (31).
Brown, Fred. G., care of McKesson and Robbins, 93 Fulton St., New York, N. Y. (31).
Brown, Hon. John C., Vice President, Texas and Pacific R. R. Co., Pulaski, Tenn. (26).
Brown, Jonathan, 390 Broadway, Somerville, Mass. (29).

Brown, Paul Taylor, 2206 Green St., Philadelphia, Pa. (33).
Brühl, Gustav, N. W. cor. John and Hopkins Sts., Cincinnati, Ohio (28).
Buck, C. Elton, Wilmington, Del. (29).
Buck, Henry C., West Somerville, Mass. (29).
Buckingham, Chas. L., U. S. Patent Office, Washington, D. C. (28).
Budd, Henry I., Mount Holly, N. J. (33).
Buffum, Miss Fannie A., Linden, Mass. (29).
Bulloch, Walter H., 99 W. Monroe St., Chicago, Ill. (30).
Burchard, Wm. M., M. D., Uncasville, Conn. (33).
Burdick, Edson A., 406 Spruce St., Le Droit Park, Washington, D. C. (30).
Burke, Jos. C., Middletown, Conn. (29).
Burke, William, U. S. Patent Office, Washington, D. C. (28).
Burland, Jeffrey H., Montreal, Can. (31).
Burns, Prof. James A., Box 456, Atlanta, Ga. (32).
Bush, Rev. Stephen, D. D., Waterford, N. Y. (19).
Butcher, Mrs. Z. D., Washington, D. C. (29).
Butler, A. W., Brookville, Franklin Co., Ind. (30).
Butler, Cyrus, 24 Cliff St., New York, N. Y. (29).
Butler, Nathan, 17 Johnston Block, Minneapolis, Minn. (32).
Butterfield, W. Webster, M. D., New Castle, Ind. (32).
Byrnes, R. M., M. D., cor. 5th and Race Sts., Cincinnati, Ohio (30).

Calder, Edwin E., Box 17, Providence, R. I. (29).
Caldwell, Albert G., Lt. Comd'r U. S. N., Torpedo Station, Newport, R. I. (31).
Caldwell, Dr. Frank, Cincinnati Hospital, Cincinnati, Ohio (30).
Calkins, Dr. Marshall, Springfield, Mass. (29).
Campbell, Rev. Prof. John, Presbyterian College, Montreal, Can. (31).
Campbell, Jos. Addison, 4816 Hancock St., Germantown, Pa. (33).
Canfield, Rev. Eli H., D.D., Arlington, Bennington Co., Vt. (25).
Capen, Miss Bessie T., Northampton, Mass. (23).
Cardeza, John M., M.D., Claymont, Del. (33).
Cargill, H. L., Hotel Eliot, Roxbury, Mass. (31).
Carman, Lewis, Bangall, N. Y. (29).
Caron, C. K., Louisville, Ky. (30).
Carpenter, Louis G., Agricultural College, Lansing, Mich. (32).
Carrington, Col. Henry B., U. S. A., care Adj. Gen. U. S. A., Washington, D. C. (20).
Carter, John E., Knox and Coulter Sts., Germantown, Pa. (33).
Case, Mrs. Fidelia O., Kansas City, Mo. (32).
Cassino, S. E., Naturalists' Agency, 41 Arch St., Boston, Mass. (25).
Castle, Frederick A., M. D., 55 E. 52nd St., New York, N. Y. (29).
Caswell, John H., 11 West 48th Street, New York, N. Y. (26).
Catlin, Charles A., 12 Cooke St., Providence, R. I. (33).
Chabert, L'Abbé Joseph, 80 St. Gabriel St., Montreal, Can. (31).
Chace, Arnold B., Valley Falls, R. I. (29).

Chadbourn, Erlon R., Lewiston, Me. (29).
Chadwick, James R., M. D., Clarendon St., Boston, Mass. (29).
Chahoon, Mrs. Mary D., St. George's Hotel, Philadelphia, Pa. (33).
Chamberlain, M., St. John, N. B. (32).
Channing, Dr. Wm. F., Providence, R. I. (29).
Chapin, Dr. J. H., Meriden, Conn. (33).
Charbonnier, Prof. L. H., University of Georgia, Athens, Ga. (26).
Chase, Mrs. Mariné J., 1622 Locust St., Philadelphia, Pa. (31).
Chase, R. Stuart, 53 Summer St., Haverhill, Mass. (18).
Chase, Thomas, Haverford College P. O., Pa. (33).
Chatfield, A. F., Albany, N. Y. (29).
Chester, Commander Colby M., U. S. N., Hydrographic Inspector, Coast Survey Office, Washington, D. C. (28).
Chester, Prof. Frederick D., Delaware State College, Newark, Del. (33).
Child, Charles F., 223 E. Main St., Richmond, Va. (33).
Childe, John Healey, Boston, Mass. (31).
Christie, James, Pencoyd, Pa. (33).
Cisco, J. G., Jackson, Tenn. (29).
Clapp, Geo. H., 98 Fourth Ave., Pittsburg, Pa. (33).
Clark, Alex S., Westfield, N. J. (33).
Clark, John S., 7 Park St., Boston, Mass. (31).
Clark, Patrick, Rahway, N. J. (33).
Clark, Simeon T., M.D., 103 Genesee St., Lockport, Niagara Co., N. Y. (25).
Clark, Wm. Brewster, M.D., 133 W. 34th St., New York, N. Y. (33).
Clarke, Prof. John M., Northampton, Mass. (31).
Clarke, Robert, Cincinnati, Ohio (30).
Clement, F. H., Everett, Pa. (33).
Cleveland, J. L., 547 W. 8th St., Cincinnati, Ohio (30).
Cloud, Jno. W., Altoona, Pa. (28).
Coakley, George W., LL.D., Hempstead, L. I. (29).
Cobb, Samuel C., 235 Boylston St., Boston, Mass. (29).
Coe, Henry W., M. D., Mandan, Dakota (32).
Coffin, Amory, Phœnixville, Pa. (31).
Coffinberry, W. L., 135 Summit St., Grand Rapids, Mich. (20).
Cogswell, W. B., Syracuse, N. Y. (33).
Coit, James M., Ph.D., Saint Paul's School, Concord, N. H. (33).
Colburn, Dr. E. M., 207 So. Jefferson St., Peoria, Ill. (33).
Colburn, Richard T., Elizabeth, N. J. (31).
Colby, C. E., M. E., School of Mines, Columbia College, New York, N. Y. (28).
Cole, Frederick, 1394 St. Catherine St., Montreal, Can. (31).
Colie, Edw. M., East Orange, N. J. (30).
Collin, Prof. Alonzo, Cornell College, Mount Vernon, Iowa (21).
Colman, Henry, M.D., 34 Nahant St., Lynn, Mass. (25).
Colton, G. Woolworth, 182 William St., New York, N. Y. (22).

Comer, Harris, 624 Locust St., Philadelphia, Pa. (33).
Compton, Murat, Bradford, McKean Co., Pa. (32).
Comstock, Dr. T. Griswold, 507 North 14th St., St. Louis, Mo. (29).
Conant, E. Ida, 139 West 45th St., New York, N. Y. (33).
Conklin, W. A., Director Central Park Menagerie, New York, N. Y. (29).
Conro, Miss Emma O., Keeseville, N. Y. (31).
Constable, Casimir, Constableville, N. Y. (29).
Cook, Dr. Charles D., 133 Pacific St., Brooklyn, N. Y. (25).
Cooley, Prof. Mortimer E., Univ. of Mich., Ann Arbor, Mich. (33).
Coon, Henry C., M. D., Alfred Centre, N. Y. (29).
Cope, Miss Mary S., Aubury, Germantown, Pa. (33).
Cope, Thos. P., Walnut Lane, Germantown, Pa. (33).
Costin, Rev. M. P., St. Jno. College, Fordham, N. Y. (30).
Couzins, Miss Phœbe W., LL.B., 2647 Washington Ave., St. Louis, Mo. (27).
Cowan, Richard Wm., 416 Notre Dame St., Montreal, Can. (31).
Cowdry, Thomas, M. D., Toronto, Can. (31).
Coxe, Miss Mary C., 1302 Pine St., Philadelphia, Pa. (33).
Crafts, Robert H., 2329 South 6th St., Minneapolis, Minn. (32).
Cragin, Francis W., Washburn College, Topeka, Kan. (29).
Cramer, A. W. Putman, 1st Ave. and 40th St., New York, N. Y. (33).
Crane, C. R., 321 Garrard St., Covington, Ky. (30).
Crawford, Prof. Morris B., Middletown, Conn. (30).
Crevier, I. A., M. D.. Montreal, Can. (31).
Croasdale, Dr. Hannah T., 1433 Walnut St., Philadelphia, Pa. (33).
Crocker, Miss Lucretia, 40 Rutland Square, Boston, Mass. (29).
Crosby, Francis W., 20 Second St., N. E., Washington, D. C. (31).
Crosier, Dr. Edward S., Louisville, Ky. (29).
Crowell, A. F., Woods Holl, Mass. (30).
Crozer, Geo. K., Upland, Pa. (33).
Crozer, Mrs. Geo. K., Upland, Pa. (33).
Crump, M. H., Col. Commanding 3d Reg. K. S. G., Bowling Green, Ky. (29).
Culin, Stewart, 127 South Front St., Philadelphia, Pa. (33).
Cummings, John, Woburn, Mass. (18).
Cunningham, Francis A., 1613 Wallace St., Philadelphia, Pa. (33).
Currier, John McNab, M. D., Castleton, Vt. (28).
Curtis, Elizabeth, 16 Beethoven St., Egleston Square, Boston, Mass. (31).
Curtiss, Abijah, Yonkers, N. Y. (31).
Cushing, Harry P., 786 Prospect St., Cleveland, Ohio (33).
Cutler, Dr. Andrew S., Kankakee, Ill. (32).
Cutter, John D., P. O. Box 276, New York, N. Y. (23).
Cutter, W. E., Box 1037, Worcester, Mass. (29).

Dale, Ben. B., 25 Wiggins Block, Cincinnati, Ohio (30).
Dale, T. Nelson, jr., Gibbs Ave., Newport, R. I. (27).

Dana, Judge Edmund L., 379 South Main St., Wilkesbarre, Pa. (32).
Dancy, Frank B., N. C. Agric. Experiment Station, Raleigh, N. C. (33).
Daniels, Edward, St. Paul, Minn. (32).
Dansereau, C. A., Montreal, Can. (31).
Davenport, H. W. (30).
Davis, Charles C., 58 W. 3rd St., Cincinnati, Ohio (30).
Davis, E. F. C., Supt. Pottsville Shops, Pottsville, Pa. (33).
Davis, G. Pierrepont, M. D., Hartford, Conn. (29).
Davis, J. J., M. D., 1119 College Ave., Racine, Wis. (31).
Davis, Dr. John, 323 Elm St., Cincinnati, Ohio (30).
Davis, Dr. John L., 42 York St., Cincinnati, Ohio (30).
Davis, Leander S., Baker City, Baker Co., Oregon (29).
Davis, Prof. Wm. Morris, jr., Cambridge, Mass. (33).
Davison, E. W., Box 126, Baltimore, Md. (30).
Dawson, Miss Sarah M., 50 Sheridan Ave., Roxbury, Mass. (29).
Day, Austin G., 120 Broadway, New York, N. Y. (29).
Dayton, L. M., 184 W. 2nd St., Cincinnati, Ohio (31).
Dean, Dr. D. V., St. Louis, Mo. (27).
DeCamp, William H., M. D., Grand Rapids, Mich. (21).
DeForest, Henry S., Pres. Talladega College, Talladega, Ala. (32).
Degni, Rev. J. M., Woodstock College, Woodstock, Howard Co., Md. (33).
De Hass, Dr. Wills, Bureau of Ethnology, Washington, D. C. (30).
Delano, Joseph C., New Bedford, Mass. (5).
Dempsey, Peter C., Trenton, Ontario, Can. (31).
Denton, John M., London, Ontario, Can. (31).
Devereaux, Willard L., Clyde, Wayne Co., N. Y. (29).
Devereux, J. H., President C. C. C. & I. R. R., Cleveland, Ohio (18).
Dewey, Fred P., Ph. B., Smithsonian Institution, Washington, D. C. (30).
DeWitt, William G., 88 Nassau St., New York, N. Y. (33).
Dexter, Julius, Cincinnati, Ohio (30).
Dickerman, Alton L., Ph. B., Somerville, Mass. (29).
Dickinson, Dwight, Surgeon U. S. N., Navy Dep't, Washington, D.C. (31).
Dickinson, Rev. John, 219 E. 27th St., New York, N. Y. (29).
Dinsmore, Prof. Thos. H., jr., York, Pa. (29).
Dinwiddie, Prof. Hardaway H., A. and M. College of Texas, College Station, Brazos Co., Texas (32).
Dixwell, Epes S., Cambridge, Mass. (1).
Dixwell, Geo. B., 553 Shawmut Ave., Boston, Mass. (29).
Dodd, Charles W., Mt. Auburn, Cincinnati, Ohio (30).
Doggett, Geo. N., Chicago, Ill. (33).
Donnelly, Ignatius, Hastings, Minn. (31).
Doolittle, Prof. C. L., South Bethlehem, Pa. (25).
Doughty, John W., 165 Johnston St., Newburgh, N. Y. (19).
Douglass, Andrew E., P. O. Box 605, New York, N. Y. (31).
Drowne, Prof. Charles, care Wm. L. Drowne, Esq., Canaan Four Corners, N. Y. (6).

Drysdale, William, Montreal, Can. (31).
Du Bois, C. H., Minneapolis, Minn. (31).
Du Bois, Patterson, Ass't Assayer, U. S. Mint, Philadelphia, Pa. (33).
Duff, Mrs. W. L., W. 140 St., between Boulevard and Hudson River, New York, N. Y. (29).
Dummer, Edward, 19 Tremont Row, Boston, Mass. (31).
Dun, Dr. Walter A., Cincinnati, Ohio (31).
Dunbar, L. L., D. D. S., 23 Kearny St., San Francisco, Cal. (31).
Dunham, Carroll, jr., 98 Boylston St., Boston, Mass. (31).
Dunham, Edw. K., 329 Beacon St., Boston, Mass. (30).
DuPont, Francis G., Wilmington, Del. (33).
Du Pré, Prof. Daniel A., Spartanburg, S. C. (28).
Durell, Prof. Fletcher, A.M., Dickinson College, Carlisle, Pa. (33).
Durfee, Matthew C., A. B., care Bedford Stone Co., Cleveland, Ohio (30).
Durfee, W. F., 89 Courtland St., Bridgeport, Conn. (33).
Dury, Henry M., 707 Woodland St., Nashville, Tenn. (33).
Dusinberre, Geo. B., Geneva, N. Y. (33).
Dyer, Clarence M., Lawrence, Mass. (22).

Eastman, Dr. Arthur M., St. Paul, Minn. (32).
Eaton, Harlow W., Ph. D., Male High School, Louisville, Ky. (32).
Eaton, Prof. James R., Liberty, Mo. (29).
Eccles, Robert G., M. D., 94 Smith St., Brooklyn, N. Y. (31).
Edelheim, Carl, 2006 Arch St., Philadelphia, Pa. (33).
Edwards, J. Baker, Montreal, Can. (31).
Edwards, J. M., Marlborough, Mass. (29).
Edwards, J. T., D. D., Randolph, N. Y. (31).
Edwards, J. W., Delaware Ave. and Green St., Philadelphia, Pa. (32).
Edwards, W. F., Niles, Mich. (33).
Edwards, Wm. H., Coalburgh, Kanawha Co., W. Va. (30).
Elder, Mrs. Susan B., New Orleans, La. (32).
Elkin, William L., Yale College Observ., New Haven, Conn. (33).
Elliot, Dr. A. F., Minneapolis, Minn. (30).
Elliott, William, care Riggs & Co., 56 Wall St., New York, N. Y. (30).
Ellis, Wm. Hodgson, School of Practical Science, Toronto, Canada (25).
Elmer, Howard N., St. Paul, Minn. (32).
Ely, Theo. N., Supt. Motive Power, Penn. R. R., Altoona, Pa. (29).
Embick, F. B., Williamsport, Pa. (32).
Emerson, Lowe, cor. John and Findlay Sts., Cincinnati, Ohio (30).
Emerson, Rev. Samuel, Univ. of Va., Va. (32).
Emmerton, Mrs. W. H., Salem, Mass. (26).
Endemann, Hermann, Ph. D., 33 Nassau St., New York, N. Y. (26).
Estes, Dana, 301 Washington St., Boston, Mass. (29).
Evans, Edwin, M. D., Streator, La Salle Co., Ill. (30).
Evans, H. Sugden, Chief Analyst for the Dominion, Inland Revenue Dept., Ottawa, Can. (31).
Evers, Edw., M. D., 1861 North Market St., St. Louis, Mo. (28).

Ewing, Addison L., 425 W. 57th St., New York, N. Y. (33).
Eyerman, John, Easton, Pa. (33).

Fallyer, Prof. George H., Manhattan, Kansas (32).
Fairfield, Frank H., So. Duxbury, Mass. (31).
Falconer, Wm., Botanic Garden, Cambridge, Mass. (29).
Fallon, John, Lawrence, Mass. (30).
Fanning, John T., Manchester, N. H. (29).
Farden, Thomas, Rugby, Tenn. (32).
Farnam, Charles H., New Haven, Conn. (25).
Farnam, Prof. J. E., Georgetown College, Georgetown, Ky. (26).
Farnam, William W., New Haven, Conn. (28).
Farnsworth, P. J., M. D., Clinton, Iowa (32).
Farquhar, Henry, Coast Survey Office, Washington, D. C. (33).
Farr, Henry L., Box 365, Rutland, Vt. (31).
Farrar, Miss Elizabeth, 62 Lake Ave., Rochester, N. Y. (29).
Fearing, Clarence W., Mass. Inst. Technology, Boston, Mass. (29).
Feemster, J. H., 437 Broadway, Cincinnati, Ohio (30).
Felton, S. M., Box 2126, Philadelphia, Pa. (29).
Fenton, Wm., Saint Paul, Minn. (33).
Fenwick, A. G., M. D., London, Ontario, Can. (31).
Fernow, Bernhard E., Slatington, Pa. (31).
Ferrier, James, jr., 144 Metcalfe St., Montreal, Can. (31).
Ferrier, Walter F., 144 Metcalfe St., Montreal, Can. (31).
Fielde, Miss Adele M., 9 Murray St., New York, N. Y. (33).
Finley, E. B., Bucyrus, Ohio (33).
Firmstone, F., Easton, Pa. (33).
Fish, Chas., Brunswick, Me. (29).
Fisher, Chas. H., Sec. State Board of Health, Providence, R. I. (29).
Fisher, Miss Ellen F., Lake Erie Seminary, Painesville, Ohio (33).
Fisher, Hon. L. C., Galveston, Texas (32).
Fitch, Dr. W. H., Rockford, Ill. (29).
Fitz, Prof. Newton, Norfolk, Va. (30).
Fleming, Sandford, Chancellor of Queen's Univ., Ottawa, Can. (31).
Fletcher, C. R., P. O. Box 500, Tucson, Arizona. (29).
Fletcher, Lawrence B., Marlboro', N. Y. (29).
Flint, Albert S., U. S. Naval Observatory, Washington, D. C. (30).
Flint, D. B., Watertown, Mass. (25).
Folger, Lt. Comd'r Wm. M., U. S. N., Care Bureau of Ordnance, Navy Dep't, Washington, D. C. (28).
Force, Cyrus G., jr., Cleveland, Ohio (31).
Forman, Benj. R., New Orleans, La. (30).
FORTESCUE, MRS. MARION T., 339 West 34th St., New York, N. Y. (31).
Fosgate, Dr. Blanchard, Auburn, N. Y. (7).
Foster, Prof. J. H., Tuscaloosa, Ala. (33).
Foulkes, James F., M. D., Oakland, Alameda Co., Cal. (30).
Fox, George H., M. D., 18 East 31st St., New York, N. Y. (31).

Fox, Prof. Joseph G., Easton, Pa. (31).
Frear, Wm., Dep't Agric., Washington, D. C. (33).
Freeman, Prof. T. J. A., St. John's College, Fordham, N. Y. (33).
Frey, S. L., Palatine Bridge, Montgomery Co., N. Y. (29).
Frick, John H., Central Wesleyan College, Warrenton, Mo. (27).
Frisbie, J. F., M. D., Box 455, Newton, Mass. (29).
Frisselle, M. M., M. D., Minneapolis, Minn. (32).
Fritts, Charles E., 42 Nassau St., New York, N. Y. (32).
Froehling, Dr. Henry (29).
FROTHINGHAM, REV. FREDERICK, Milton, Mass. (11).
FROTHINGHAM, MRS. LOIS R., Milton, Mass. (31).
Fuller, H. Weld, 17 Pemberton Square, Boston, Mass. (29).
Fulton, Prof. Robert B., University of Mississippi, Oxford, Miss. (21).
Fyles, Rev. Thomas W., South Quebec, P. Q., Can. (31).

Gaffield, Thomas, 54 Allen St., Boston, Mass. (29).
Gaines, Richard H., Norfolk, Va. (33).
Gallaudet, Edw. M., Pres. Nat. Deaf Mute College, Washington, D. C. [(28).
Gannett, Henry, U. S. Geological Survey, Washington, D. C. (33).
Gardiner, Edw. G., Boston Soc. Nat. History, Boston, Mass. (29).
Gardiner, Rev. Frederic, jr., Sioux Falls, Dakota (29).
Gardner, Rev. Corliss B., 8 New York St., Rochester, N. Y. (29).
Gardner, Joseph, M. D., Bedford, Lawrence Co., Ind. (30).
Garnett, Algernon S., M.D., Hot Springs, Arkansas (23).
Garrett, Miss Mary R., Rosemont, Montgomery Co., Pa. (33).
Garrett, Philip C., Logan P. O., Philadelphia, Pa. (33).
Garrison, H. D., 3625 Vincennes Ave., Chicago, Ill. (31).
Garth, Charles, Montreal, Can. (31).
Gascoyne, W. J., State Dept. of Agric., Richmond, Va. (33).
Gattinger, August, M.D., Nashville, Tenn. (26).
Genth, Fred. A., jr., 4014 Chestnut St., West Philadelphia, Pa. (32).
Gentry, Thos. G., 1912 Christian St., Philadelphia, Pa. (33).
George, James N., 40 Pearl St., Boston, Mass. (29).
Geyer, Wm. E., Stevens Inst. Technology, Hoboken, N. J. (29).
Ghequier, A. de, Box 425, Baltimore, Md. (30).
Gibbs, Prof. J. Willard, New Haven, Conn. (33).
Gilbert, Benj. D., Utica, N. Y. (31).
Gilbert, Mary H., M. D., 31 W. 32nd St., New York, N. Y. (33).
Gilchrist, Miss Maude, Iowa State Normal School, Cedar Falls, Iowa (33).
Girdwood, Gilbert P., 28 Beaver Hall Terrace, Montreal, Can. (31).
Gladding, Thomas S., Box 1261, New York, N. Y. (30).
Gleeson, Thos. W., 109 Court St., Boston, Mass. (31).
Glenn, William, South Strafford, Vt. (33).
GLENNY, WILLIAM H., JR., Buffalo, N. Y. (25).
Gold, Theodore S., West Cornwall, Conn. (4).
Goldsmith, Edw., 658 North 10th St., Philadelphia, Pa. (29).
Goodnow, Henry R., 32 Remsen St., Brooklyn, N. Y. (32).

Gordon, Prof. Jos. C., Deaf Mute College, Washington, D. C. (27).
Gordon, Dr. T. Winslow, Georgetown, Ohio (30).
Gordon, W. J., 53 Water St., Cleveland, Ohio (29).
Gore, James H., Columbian College, Washington, D. C. (29).
Gould, Dr. B. A., Cambridge, Mass. (2).
Gould, Sylvester C., Manchester, N. H. (22).
Graef, Edw. L., 40 Court St., Brooklyn, N. Y. (28).
Graf, Louis, Van Buren, Crawford Co., Ark. (30).
Grant, Angus, Montreal, Can. (31).
Graves, C. E., D. D. S., 715 North 41st St., Philadelphia, Pa. (33).
Gray, Arthur F., Danversport, Mass. (29).
Green, Arthur L., Univ. of Mich., Ann Arbor, Mich. (33).
Green, Milbrey, M. D., No. 1 Columbus Square, Boston, Mass. (29).
Greene, Jacob L., Pres. Mut. Life Ins. Co., Hartford, Conn. (23).
Greene, Jeanette B., M.D., 8 E. 46th St., New York, N. Y. (33).
Greene, Thos. A., 146 Martin St., Milwaukee, Wis. (31).
Greenleaf, John T., Owego, N. Y. (33).
Greenleaf, R. P., M. D., Henry Clay P. O., Del. (31).
Greenough, W. W., 24 West St., Boston, Mass. (29).
Greve, Theodor L. A., M. D., 260 W. 8th St., Cincinnati, Ohio (30).
Gridley, Albert L., Gilead, Oxford Co., Me. (25).
Grinnell, George Bird, 39 Park Row, New York, N. Y. (25).
Griscom, Wm. W., Haverford College P. O., Pa. (33).
Grossklaus, John F., Navarre, Ohio (24).
Grovesteen, Milton W., 430 W. 23d St., New York, N. Y. (33).

Hacker, William, 161 Wister St., Germantown, Pa. (33).
Hagemann, John, 106 Bank St., Cincinnati, Ohio (29).
Haight, Stephen S., West Farms, New York, N. Y. (31).
Hainer, Prof. Julius C., Ames, Iowa (33).
Haines, Reuben, 123 West Chelton Ave., Germantown, Pa. (27).
Haines, Wm. J., Cheltenham, Montgomery Co., Pa. (33).
Halberstadt, Baird, Pottsville, Pa. (33).
Hale, Albert C., Ph. D., Box 65, Brooklyn, N. Y. (29).
Hale, Miss Mary, care of Hon. J. J. Clarke, Kenilworth St., Roxbury, Mass. (31).
Hale, William H., Ph. D., Albany, N. Y. (32).
Haliburton, R. G., Q. C., Ottawa, Can. (31).
Hall, Clayton C., 142 Park Ave., Baltimore, Md. (33).
Hallock, Albert P., Ph. D., 249 East 31st St., New York, N. Y. (31).
Hallowell, Mrs. J. L., 2017 DeLancy Place, Philadelphia, Pa. (33).
Hallowell, Miss Susan M., Wellesley College, Wellesley, Mass. (33).
Hambach, Dr. G., 1319 Lami St., St. Louis, Mo. (26).
HAMILTON, JNO. M., Coudersport, Potter Co., Pa. (33). [(28).
Hammond, Geo. W., "The Hamilton," 260 Clarendon St., Boston, Mass.
Hammond, Mrs. Geo. W., "The Hamilton," 260 Clarendon St., Boston, Mass. (29).
Hampson, Thomas, Bureau of Education, Washington, D. C. (33).

Harding, Prof. H. Wilson, Bethlehem, Pa. (33).
Harding, Henry, Salem, Mass. (31).
Harding, Myron H., M. D., Lawrenceburg, Ind. (30).
Hare, Hobart A., M.D., 113 So. 22nd St., Philadelphia, Pa. (33).
Hare, Prof. R. B., Hamilton, Ontario, Can. (28).
Harford, Wm. G. W., 2132 O'Farrell St., San Francisco, Cal. (29).
Hargraves, Dr. M. Elizabeth, Southbridge, Mass. (33).
Harmon, Miss A. Maria, 49 Daly St., Ottawa, Can. (31).
Harrington, W. H., Post Office Dept., Ottawa, Can. (29).
Harris, I. H., Waynesville, Warren Co., Ohio (30).
Harris, W. T., Lock Box 1, Concord, Mass. (27).
Harrison, Edwin, 322 Pine St., Room 20, St. Louis, Mo. (11).
Harrison, Geo. B., 520 E. Mulberry St., Bloomington, Ill. (29).
Harrison, Thos., LL. D., Fredericton, N. B. (29).
Hart, Charles P., M. D., Wyoming, Ohio (30).
Hart, Edw., Ph.D., Easton, Pa. (33).
Hart, Rev. Prof. Samuel, Trinity College, Hartford, Conn. (22).
Hartshorne, Dr. Henry, Germantown, Pa. (33).
Harvey, Charles W., Sup't Public Schools, Greensburg, Ind. (20).
Hasse, Hermann E., M.D., 1810 Main St., Little Rock, Ark. (33).
Hatch, Horace, M. D., 1323 F St., N. W., Washington, D. C. (31).
Hatch, P. L., M. D., 44 11th St. South, Minneapolis, Minn. (31).
Hatfield, Marcus P., M.D., Chicago Medical College, Chicago, Ill. (23).
Hathaway, Nath'l, New Bedford, Mass. (30).
Haupt, Prof. Lewis M., University of Pennsylvania, Philadelphia, Pa. (32).
Haven, Franklin, jr., New England Trust Co., Boston, Mass. (29).
Hay, Prof. Oliver P., Irvington, Marion Co., Ind. (33).
Hayes, Richard, 700 Chestnut St., St. Louis, Mo. (27).
Haywood, Prof. John, Otterbein Univ., Westerville, Ohio (30).
Hazen, Henry Allen, P. O. Box 427, Washington, D. C. (33).
Hedge, Fred. H., jr., Public Library, Lawrence, Mass. (28).
Hedges, Sidney M., 178 Devonshire St., Boston, Mass. (29).
Heighway, A. E., M. D., Cincinnati, Ohio (29).
Heighway, A. E., jr., 86 West 7th St., Cincinnati, Ohio (29).
Heighway, S. C., Cincinnati, Ohio (30).
Heilprin, Prof. Angelo, Acad. Nat. Sciences, Philadelphia, Pa. (33).
Heine, Rev. G. Colborne, 102 St. Famille St., Montreal, Can. (31).
Hemiup, N. H., Pence Opera House, Room 1, Minneapolis, Minn. (31).
Henderson, Miss A. M., Minneapolis, Minn. (32).
Henderson, Chas. Hanford, 201 So. 5th St., Philadelphia, Pa. (33).
Hendricks, Henry H., 512 Fifth Avenue, New York, N. Y. (30).
Hendricks, J. E., Des Moines, Iowa (29).
Henkels, Frank, 138 So. 6th St., Philadelphia, Pa. (33).
Henshaw, Samuel, Boston Soc. Nat. Hist., Boston, Mass. (29).
Hering, Prof. Dan'l W., Westminster, Md. (30).
Hering, Rudolph, 326 Walnut St., Philadelphia, Pa. (33).

Herman, Joseph E., Acushnet, Bristol Co., Mass. (32).
Herrick, F. H., Burlington, Vt. (31).
Hersey, George D., M. D., 261 Broad St., Providence, R. I. (29).
Hertzberg, Prof. Constantine, 140 Duffield St., Brooklyn, N. Y. (29).
Hewitt, Charles N., Sec. State Bd. of Health, Red Wing, Minn. (31).
HEXAMER, C. JOHN, C. E., 2313 Green St., Philadelphia, Pa. (33).
Heyer, Wm. D., Elizabeth, N. J. (33).
Hibbard, Miss Sarah E. (31).
Hickling, Daniel P., 221 Third St., Washington, D. C. (32).
Hicks, John D., Old Westbury, Queen's Co., L. I. (23).
Hicks, John S., Roslyn, N. Y. (31).
Hicks, Prof. Lewis E., State Univ., Lincoln, Neb. (31).
Higgins, Samuel, Susquehanna, Pa. (33).
Higginson, John A., 260 Clarendon St., Boston, Mass. (26).
Hildreth, Dr. John L., 37 Brattle St., Cambridge, Mass. (29).
Hill, Chas. S., care Dept. of State, Washington, D. C. (33).
Hills, Joseph L., 157 K St., South Boston, Mass. (31).
Hinckley, Miss Mary H., Mattapan Station, Milton, Mass. (31).
Hindley, Prof. R. C., Racine College, Racine, Wis. (33).
Hinds, Prof. J. I. D , Lebanon, Tenn. (26).
Hingston, Dr. William H., Montreal, Can. (31).
Hinton, John H., M. D., 41 West 32nd St., New York, N. Y. (29).
Hirschfelder, Chas. A., Vice Consul U. S. A., Toronto, Can. (33).
Hitchcock, Henry, 404 Market St., St. Louis, Mo. (27).
Hobbs, A. C., Bridgeport, Conn. (28).
Hockley, Thos., 235 So. 21st St., Philadelphia, Pa. (33).
Hodge, J. M., Greenup, Greenup Co., Ky. (29).
Hoeltge, Dr. A., 322 Lime St., Cincinnati, Ohio (30).
Holabird, Gen. Samuel B., Q. M. Gen. U. S. A., Washington, D. C. (32).
Holbrook, F. N., E. M., 7 Jefferson St., Brooklyn, N. Y. (26).
Holbrook, Levi, P. O. Box 536, New York, N. Y. (33).
Holden, L. E., Cleveland, Ohio (32).
Holland, John, 19 W. 4th St., Cincinnati, Ohio (30).
Holley, George W., Ithaca, N. Y. (19).
Hollick, Arthur, Box 105, New Brighton, Staten Island, N. Y. (31).
Hollingsworth, Miss Rose, Mattapan Station, Milton, Mass. (31).
Holly, Jno. I., 62 Beaver St., New York, N. Y. (29).
Holman, David S., Franklin Inst., Philadelphia, Pa. (33).
Holman, Mrs. Silas W., Mass. Inst. of Technology, Boston, Mass. (29).
Holmes, Edw. J., 17 Beacon St., Boston, Mass. (29).
Holmes, Prof. Jos. A., Chapel Hill, N. C. (33).
Holstein, Geo. Wolf, Box 34, Belvidere, Warren Co., N. J. (28).
Holstein, L. M., Belvidere, Warren Co , N. J. (31).
Holt, Henry, 12 East 23d St., New York, N. Y. (29).
Holway, E. W. D., Decorah, Iowa (33).
Holzinger, Prof. John M., Winona, Minn. (32).
Homer, Chas. S., jr., of Valentine & Co., 323 Pearl St., New York, N. Y. [(29).

Homes, Henry A., Librarian State Library, Albany, N. Y. (11).
Homes, Henry F., Albany, N. Y. (31).
Hood, E. Lyman, Minneapolis, Minn. (30).
Hood, Gilbert E., Lawrence, Mass. (29).
Hood, Harvey P., Derry, N. H. (33).
Hooper, Dr. F. H., 150 County St., New Bedford, Mass. (29).
Hooper, Wm. Leslie, College Hill, Mass. (33).
Horr, Asa, M. D., Dubuque, Iowa (21).
Horton, Rev. Sanford J., D.D., Cheshire, Conn. (28).
How, W. Storer, Chestnut, S. E. cor. 12th St., Philadelphia, Pa. (30).
Howe, Allen B., Ph. D., New Haven, Conn. (31).
Howe, Andrew J., M. D., Cincinnati, Ohio (28).
Howell, Edw. I. H., 4636 Germantown Ave., Germantown, Pa. (33).
Howell, Edwin E., Rochester, N. Y. (25).
Howell, Richard L., Millville, N. J. (32).
Howland, Edw. P., 211 4½ St., Washington, D. C. (29).
Hubbard, George W., M. D., Nashville, Tenn. (26).
Hudson, George H., Plattsburgh, Clinton Co., N. Y. (31).
Hugo, T. W., Duluth, Minn. (33).
Huling, Ray G., Fitchburg, Mass. (31).
Hulst, Rev. Geo. D., 15 Himrod St., Brooklyn, N. Y. (29).
Humphrey, D., M. D., Lawrence, Mass. (18).
Humphreys, A. W., Box 1384, New York, N. Y. (20).
Humphreys, Fred. H., M. D., 109 Fulton St., New York, N. Y. (30).
Humphreys, Dr. Frederick, 109 Fulton St., New York, N. Y. (29).
Hungerford, Edward, Burlington, Vt. (31).
Hunt, Ezra M., M.D., Trenton, N. J. (33).
Hunt, Miss Sarah E., Salem, Mass. (20).
Hunt, Mrs. Wm., 1300 Spruce St., Philadelphia, Pa. (33).
Huntington, Prof. Chester, P. O. Box 1780, New York, N. Y. (26).
Hurd, E. O., 4 W. 3d St., Cincinnati, Ohio (30).
Hurlburt, Edw., 128 Genesee St., Utica, N. Y. (33).
Hutchinson, Charles W., Utica, N. Y. (31).
Hutchinson, E. S., Newtown, Bucks Co., Pa. (33).
Hutchinson, Prof. J. C., Monmouth, Warren Co., Ill. (32).
Hyatt, Jonathan D., Morrisania Station, New York, N. Y. (29).
Hyatt, Col. Theodore, Pres. Penn. Military Acad., Chester, Pa. (30).

Iles, George, Windsor Hotel, Montreal, Can. (31).
Ingham, Wm. A., 320 Walnut St., Philadelphia, Pa. (33).
Ives, Hubert R., 791 Sherbrooke St., Montreal, Can. (31).

Jack, John G., Chateaugay Basin, P. Q., Can. (31).
Jackson, Chas. C., 24 Congress St., Boston, Mass. (29).
Jackson, Jacob A., Des Moines, Iowa. (33).
James, Bushrod W., M. D., N. E. cor. 18th and Green Sts., Philadelphia, Pa. (29).

James, Davis L., 177 Race St., Cincinnati, Ohio (30).
James, Edmund J., Ph.D., Univ. of Pa., Philadelphia, Pa. (33).
James, Henry, M. D., City Belleville, Ontario, Can. (29).
Janney, Reynold, Wilmington, Clinton Co., Ohio (30).
Jefferis, Wm. W., 1836 Green St., Philadelphia, Pa. (33).
Jefferson, T. E., Hudson, Wis. (32).
Jenkins, Edw. H., New Haven, Conn. (33).
Jenney, Herbert, cor. 5th and Walnut Sts., Cincinnati, Ohio (30).
Jennings, W. H., Eng. C. H. V. and T. R'way, Columbus, Ohio (33).
Jerrell, Herbert Parvine, Bridgeton, N. J. (33).
Jesup, Morris K., 52 William St., New York, N. Y. (29).
Jewett, Henry S., M. D., 21 S. Ludlow St., Dayton, Ohio (30).
Johnson, Anna H., M.D., Orange, Essex Co., N. J. (33).
Johnson, Prof. Hosmer A., Academy of Sciences, Chicago, Ill. (22).
Johnson, Prof. John B., Washington Univ., St. Louis, Mo. (33).
Johnson, Lawrence C., Washington, D. C. (33).
Johnston, Miss Elizabeth B., 937 K St., Washington, D. C. (30).
Johnston, Sanders W., Counsel at Law, 1427 F St., Washington, D. C. (29).
Joly, Henri Gustave, Quebec, Can. (32).
Jones, George W., Ithaca, N. Y. (32).
Jones, Mrs. Gulielma M. S. P., 1312 Filbert St., Philadelphia, Pa. (33).
Jones, Joseph, M.D., New Orleans, La. (33).
Jones, Louis Q., 42 Farmington Ave., Hartford, Conn. (31).
Jones, Prof. Richard W., Pres. Mississippi Industrial Inst. and Coll., Columbus, Miss. (25).
Jones, Wm. A., Major Corps of Engrs. U. S. A., Portland, Oregon (29).
Jordan, Prof. David S., Bloomington, Ind. (31).
Joseph, J. H., Dorchester St., Montreal, Can. (31).
Judson, Chas. H., LL.D., Greenville, S. C. (33).
Julich, Wilhelm (29).
Justice, Wm. W., Germantown, Pa. (33).
Justice, Mrs. Wm. W., Germantown, Pa. (33).
Justus, Irving J., Stanfordville, Duchess Co., N. Y. (28).

Keen, Wm. W., M. D., 1729 Chestnut St., Philadelphia, Pa. (29).
Keller, Harry F., 6th St., below Vine, Philadelphia, Pa. (33).
Kelley, Clarence E., P. O. Box 1235, Haverhill, Mass. (32).
Kellogg, David S., M. D., Plattsburgh, N. Y. (29).
Kellogg, James H., 1 Ida Terrace, Troy, N. Y. (29).
Kellogg, John H., M. D., Battle Creek, Mich. (24).
Kelsey, Prof. Ambrose P., Clinton, N. Y. (29).
Kemper, Dr. And. C., 101 Broadway, Cincinnati, Ohio (30).
Kennedy, Prof. George T., Kings College, Windsor, N. S. (29).
Kidder, H. P., 40 State St., Boston, Mass. (29).
Kilgore, William, Minneapolis, Minn. (32).

Kimball, Arthur Lalanne, Johns Hopkins Univ., Baltimore, Md. (33).
Kimball, H. Augusta, M.D., 1110 Walnut St., Philadelphia, Pa. (33).
Kimball, John Cone, Revere House, Boston, Mass. (30).
Kinder, Miss Sarah, 27 Lockerbie St., Indianapolis, Ind. (20).
King, A. F. A., M. D., 726 13th St. N. W., Washington, D. C. (29).
King, Charles F., Steelton, Pa. (33).
King, F. H., River Falls, Wis. (32).
King, Miss Harriet, Salem, Mass. (28).
King, Hiram U., Stamford, Conn. (31).
King, Mrs. Mary B. A., 21 Madison St., Rochester, N. Y. (15).
Kingsley, J. Sterling, Malden, Mass. (33).
Kinner, Dr. Hugo, 1517 South Seventh St., St. Louis, Mo. (21).
Kirkland, Thomas, Toronto, Ontario, Can. (31).
Kirkpatrick, James A., 1138 Girard St., Philadelphia, Pa. (7).
Kitchell, John W., Pana, Christian Co., Ill. (32).
Knapp, Prof. Seaman A., Ames, Iowa (32).
Knight, Prof. Charles M., 245 Carroll St., Akron, Ohio (29).
Knight, Miss Elizabeth G., 212 E. 50th St., New York, N. Y. (31).
Knowlton, Frank H., Dept. of Botany, U. S. Nat'l Museum, Washington, D. C. (33).
Kocsis, Alexander, Livingston, Guatemala (26).
Kolbe, C. W., Ph. D., 32 Longwood Ave., Cleveland, Ohio (33).

Lacoe, R. D., Pittston, Pa. (31).
Laflamme, Prof. J. C. K., Laval Univ., Quebec, Can. (29).
La Flesche, Francis, Indian Bureau, Interior Dept., Washington, D. C. (33).
Laist, Otto, Cincinnati, Ohio (30).
Lakes, Prof. Arthur, State School of Mines, Golden, Col. (26).
Lamb, Mrs. Martha J., Coleman House, New York, N. Y. (29).
Lamborn, Robert H., Ph. D., 32 Nassau St., New York, N. Y. (28).
Landesberg, Maximilian, M. D., 2006 Arch St., Phila., Pa. (33).
Lane, Jonathan A., Boston, Mass. (29).
Larkin, Ethan Pendleton, M.D., Alfred Univ., Alfred Centre, N. Y. (33).
Larkin, Frederick, M. D., Randolph, N. Y. (28).
Lathrop, J. C., Bridgeport, Conn. (31).
Latimer, Charles, Chief Eng. N. Y. P. and O. R. R., Cleveland, Ohio (31).
Latour, Major L. A. Huguet, 36 McGill College Ave., Montreal, Can. (31).
Laudy, Louis H., School of Mines, Columbia College, New York, N. Y. (28).
Lawrence, Hon. Edw., Pres't Bunker Hill National Bank, Charlestown, Mass. (18).
Laws, Miss Annie, 100 Dayton St., Cincinnati, Ohio (30).
Lawson, George, LL. D., Halifax, N. S. (31).
Lawson, Prof. Victor F., Chicago, Ill. (32).
Lea, John McCormick, Nashville, Tenn. (26).
Learned, Rev. J. C., 1748 Waverly Place, St. Louis, Mo. (27).

Leavenworth, Francis P., Leander McCormick Observ., University of Virginia, Va. (30).
Ledyard, L. W., Cazenovia, Madison Co., N. Y. (29).
Lee, Wm., M. D., 2111 Penna. Avenue, Washington, D. C. (29).
Leete, James M., M.D., 2912 Washington Avenue, St. Louis, Mo. (27).
Leffman, Henry, M. D., P. O. Box 791, Philadelphia, Pa. (31).
Lehman, B. N., Media, Pa. (32).
Lehman, G. W., Ph. D., 57 So. Gay St., Baltimore, Md. (30).
Leidy, Mrs. Joseph, 1302 Filbert St., Philadelphia, Pa. (33).
Leiseuring, Edw. B., Mauch Chunk, Pa. (33).
Leland, Eugene R., P. O. Box 2364, New York, N. Y. (25).
Lemp, Wm. J., cor. Cherokee and 2nd Carondelet Ave., St. Louis, Mo. (27).
Lennon, William H., Brockport, N. Y. (31).
Lentz, Wm. O., Mauch Chunk, Pa. (33).
Leonard, Rensselaer, M.D., Mauch Chunk, Pa. (33).
Leoser, Charles Mc K., 244 W. 39th St., New York, N. Y. (32).
Letchworth, Josiah, Buffalo, N. Y. (25).
L'Etoile, Joseph, Dept. of Interior, Quebec, Can. (31).
Letterman, Geo. W., Allenton, Mo. (27).
LeVan, Wm. B., 3607 Baring St., Philadelphia, Pa. (33).
Levy, Louis E., 854 North 8th St., Philadelphia, Pa. (33).
Lewis, Elias, jr., Brooklyn Bank, Brooklyn, N. Y. (23).
Lewis, Miss Graceanna, Acad. Nat. Sci., Philadelphia, Pa. (33).
Lewis, Wm. J., M.D., 30 Gillett St., Hartford, Conn. (33).
Libbey, Joseph. Georgetown, D. C. (31).
Libbey, William, jr., Princeton, N. J. (29).
Liebig, Dr. G. A., 87 Exchange Place, Baltimore, Md. (30).
Lindsley, Adrian Van S., Sec'y Univ. of Nashville, Nashville, Tenn. (26).
Linton, Miss Laura, 710 13th Ave. S. E., Minneapolis, Minn. (33).
Lippincott, J. Dundas, 509 So. Broad St., Philadelphia, Pa. (33).
Lippincott, Mrs. J. Dundas, 509 So. Broad St., Philadelphia, Pa. (33).
Little, William, Montreal, Can. (31).
Livermore, Mrs. M. A. C., 24 North Avenue, Cambridge, Mass. (29).
Lloyd, Mrs. Rachel, Louisville, Ky. (31).
Logan, John, M. D., 141 E. 15th St., New York, N. Y. (29).
Loiseau, Emile F., 303 Walnut St., Philadelphia, Pa. (33).
Lomb, Carl F., Rochester, N. Y. (29).
Longshore, Hannah E., M.D., 1326 Arch St., Philadelphia, Pa. (33).
Loomis, Horatio, Burlington, Vt. (31).
Loud, Prof. Frank H., Colorado Springs, Col. (29).
Lounsbury, Prof. Thos. R., New Haven, Conn. (31).
Lovell, John W., New York, N. Y. (31).
Lovewell, Prof. Joseph T., Washburn College, Topeka, Kansas (25).
Low, Seth, 31 Burling Slip, New York, N. Y. (29).

Lowell, Aug., 60 State St., Boston, Mass. (29).
Lowrie, J. R., Warriorsmark, Pa. (29).
Lucas, Albert, 141 N. 4th St., Philadelphia, Pa. (33).
Lucas, John, 141 N. 4th St., Philadelphia, Pa. (33).
Lucas, Mrs. John, 1913 Arch St., Philadelphia, Pa. (33).
Ludlow, Col. Wm., Water Dept., Philadelphia, Pa. (33).
Lufkin, Albert, Newton, Iowa (31).
Lunn, William, Montreal, Can. (31).
Lyford, Edwin F., Springfield, Mass. (33).
Lyford, Prof. Moses, Waterville, Me. (22).
LYMAN, BENJ. SMITH, Northampton, Mass. (15).
Lyman, Henry H., 74 McTavish St., Montreal, Can. (29).
Lynch, W. H., Danville, P. Q., Can. (31).
Lyons, Joseph, U. S. Patent Office, Washington, D. C. (33).

Mac Alister, James, 713 Filbert St., Philadelphia, Pa. (33).
MacArthur, Charles L., Troy, N. Y. (19).
MacGregor, Donald, 106 Austin St., Houston, Texas (33).
Mac Laurin, Rev. Donald D., 2114 17th Ave. S., Minneapolis, Minn. (32).
Mac Swain, L. S., Thomasville, Ga. (33).
Mack, William, M.D., Salem, Mass. (21).
Macomber, Albert E., Toledo, Ohio (30).
Macomber, Isaac B., Portsmouth, R. I. (29).
Macy, Arthur, C. E., Silver King, Pinal Co., Arizona Terr. (26).
Maffet, Wm. Ross, Wilkes Barre, Pa. (33).
Maguire, Franck Z., 1116 Virginia Ave., Washington, D. C. (33).
Major, Dr. George W., 1398 St. Catherine St., Montreal, Can. (31).
Makeever, John L., Osceola, Polk Co., Neb. (32).
Mallinckrodt, Edw., P. O. Sub-Station A, St. Louis, Mo. (29).
Maloney, James A., P. O. Box 491, Washington, D. C. (30).
Manning, Richard C., Salem, Mass. (29).
Manning, Richard H., Brooklyn, N. Y. (29).
Manning, Miss Sara M., Lake City, Minn. (33).
Manning, Warren H., Reading, Mass. (31).
Mansfield, I. F., Cannelton, Beaver Co., Pa. (32).
Mansfield, J. M., Mt. Pleasant, Iowa (25).
Marble, J. Russel, Worcester, Mass. (31).
Marble, Miss Sarah, Woonsocket, R. I. (29).
Marcy, Henry O., M. D., 690 Main St., Cambridge, Mass. (28).
Marler, George L., Montreal, Can. (31).
Marsden, Samuel, 907 Clay Avenue, St. Louis, Mo. (27).
Marshall, William I., Fitchburg, Mass. (27).
Martin, Miss Lillie J., High School, Indianapolis, Ind. (32).
Martindale, Isaac C., Camden, N. J. (26).
Martindale, Mrs. Lizzie J., Camden, N. J. (33).
Mason, Norman N., Providence, R. I. (29).

Mason, Dr. William P., Troy, N. Y. (31).
Mathews, Robert, 96 Spring St., Rochester, N. Y. (25).
Mathieu, Jean Anton, 52 Moffat Block, Detroit, Mich. (33).
Matlack, Charles, 625 Walnut St., Philadelphia, Pa. (27).
Matthews, E. O., Capt. U. S. N., U. S. Flagship, "New Hampshire" (1st Rate), Newport, R. I. (28).
Mattison, Joseph G., 197 Pearl St., New York, N. Y. (30).
Maury, Rev. Mytton, D. D., Goshen, N. Y. (33).
Maxwell, Geo. M., Wyoming, Hamilton Co., Ohio (30).
May, Miss Abby W., 3 Exeter St., Boston, Mass. (29).
May, Addison, West Chester, Pa. (29).
May, John J., Box 2348 Boston, Mass. (29).
Mayer, William G., Cincinnati, Ohio (30).
Maynard, Geo. W., 35 Broadway, New York, N. Y. (33).
Maynard, Washburn, Lt. U. S. N., Torpedo Station, Newport, R. I. (33).
Mays, Dr. Thos. J., Upper Lehigh, Pa. (29).
McAdams, Wm., jr., Otterville, Ill. (27).
Mc Cabe, Thomas, Patent Office, Ottawa, Can. (32).
McCall, Mrs. Geo. A., West Chester, Pa. (33).
McChesney, Charles E., M. D., U. S. A., Fort Bennett, Dakota Terr. (30).
McClintock, A. H., Wilkes Barre, Pa. (33).
McCorkle, Spencer C., Ass't C. and G. Survey, Sub Office, Philadelphia, Pa. (33).
McCreath, Andrew S., 223 Market St., Harrisburgh, Pa. (33).
McCutchen, Aug. R., Dept. Agric., Atlanta, Ga. (25).
McDougall, John Lorn, Ottawa, Ontario, Can. (33).
McFadden, Prof. L. H., Westerville, Ohio (32).
McFarland, Robert W., LL.D., Columbus, Ohio (33).
McGee, Charles K., Ann Arbor, Mich. (32).
McGee, Miss Emma R., Farley, Iowa (33).
McGobrick, James, Minneapolis, Minn. (32).
McGuire, Joseph D., Ellicott City, Md. (30).
McInnis, Prof. Louis L., College Station, Texas (31).
McKean, W. V., 151 North 18th St., Philadelphia, Pa. (33).
McKenna, Chas. Francis, 216 E. 19th St., New York, N. Y. (33).
McLachlan, J. S., 480 St. Paul St., Montreal, Can. (31).
McLarty, James M., care Alex. Moore, No. 3 School St., Boston, Mass. (31).
McLean, T. C., Lieut. U. S. N., Navy Dept., Washington, D.C. (33).
McLennan, Hugh, Montreal, Can. (31).
McLeod, Geo. I., 3905 Locust St., Philadelphia, Pa. (33).
McMaster, Æneus (31).
McNair, F. V., Commander U. S. N., Naval Academy, Annapolis, Md. (28).
McNeal, Albert T., Bolivar, Tenn. (26).
McNeill, Malcolm, Princeton, N. J. (32).
McPike, Mrs. Jennie, Brazeau P. O., Perry Co., Mo. (33).

McWhorter, Tyler, Aledo, Ill. (20).
Mead, Walter H., 65 Wall St., New York, N. Y. (29).
Medici, Chas. de, Ph.D., 347 Sixth Ave., New York, N. Y. (33).
Meehan, Mrs. Thos., Germantown, Pa. (29).
Meigs, John, Ph.D., The Hill School, Pottstown, Pa. (33).
Meister, Herman C., 3013 Meramec St., St. Louis, Mo. (33).
Mendenhall, R. J., Minneapolis, Minn. (31).
Merchant, Richard V., East Weymouth, Mass. (29).
Merkel, G. H., M. D., 322 Shawmut Avenue, Boston, Mass. (29).
Merriam, C. Hart, M.D., Locust Grove, Lewis Co., N. Y. (33).
Merrick, Hon. Edwin T., New Orleans, La. (29).
Merriman, Prof. Geo. B., Rutgers College, New Brunswick, N. J. (29).
Merriman, Prof. Mansfield, Lehigh Univ., Bethlehem, Pa. (32).
Merritt, E. G., Indianapolis, Ind. (33).
Merryman, Capt. James H., U. S. R. M., 3 Bowling Green, New York, N. Y. (31).
Merryweather, Geo. N., cor. 6th and Race Sts., Cincinnati, Ohio (30).
Metcalf, Caleb B., Highland Military Academy, Worcester, Mass. (20).
Metcalf, William, Pittsburgh, Pa. (33).
Metz, Charles L., M. D., Madisonville, Hamilton Co., Ohio (30).
Meyer, Charles E., 1717 Chestnut St., Philadelphia, Pa. (33).
Michels, John, Box 3230, New York, N. Y. (29).
Miles, Prof. Manly, Mass. Agric. Coll., Amherst, Mass. (29).
Miller, Dr. Chas. A., Longview Asylum, Carthage, Hamilton Co., Ohio, (30).
Miller, Edgar G., 279 Baltimore St., Baltimore, Md. (29).
Miller, Enoch H., M. D., Liberty, Mo. (32).
Miller, Geo. M., 20 Broad St., New York, N. Y. (29).
Miller, John A., Drawer 110, Cairo, Ill. (22).
Miller, S. A., Cincinnati, Ohio (26).
Mills, Andrew G., Galveston, Texas (33).
Mills, James, M. A., Guelph, Ontario, Can. (31).
Mills, T. Wesley, Montreal, Can. (31).
Mills, William H., Hamilton, Ontario, Can. (31).
Minns, Miss S., 14 Louisberg Square, Boston, Mass. (32).
Mitchell, Geo. O., Hanover, N. H. (29).
Mixter, Calvin S., Census Bureau, Washington, D. C. (31).
Moat, Robert, Montreal, Can. (31).
Mohr, C. A., Mobile, Ala. (30).
Mohr, Charles, Mobile, Ala. (30).
Mohr, Miss Emily, Cincinnati, Ohio (30).
Mohr, Miss Marie, Cincinnati, Ohio (30).
Mohr, Paul, Cincinnati, Ohio (30).
Moliner, Adolfo, 530 Cerro, Havana, Cuba (28).
Molson, John, Montreal, Can. (31).
Molson, John H. R., Montreal, Can. (31).
Montgomery, Henry, 536 Ontario St., Toronto, Can. (29).

Moody, Mrs. Mary B., M. D., 187 N. Pearl St., Buffalo, N. Y. (25).
Moore, Alex., 3 School St., Boston, Mass. (29).
Moore, Alvin H., Magog, P. Q., Can. (31).
Moore, E. C., care Tiffany & Co., New York, N. Y. (30).
Moore, Robert, 325 Chestnut St., St. Louis, Mo. (33).
Morehouse, George W., Wayland, Steuben Co., N. Y. (24).
Moreland, Prof. S. T., Lexington, Va. (33).
Morgan, James H., Carlisle, Pa. (33).
Morgan, Wm. E., Haverford College, Pa. (33).
Morgan, Wm. F., 1 East 40th St., New York, N. Y. (27).
Morison, Dr. N. H., Provost of Peabody Institute, Baltimore, Md. (17).
Morison, Harrison G. O., Minneapolis, Minn. (32).
Morison, Rebecca N. (32).
Morris, Gouverneur, Lansford, Pa. (33).
Morris, Wistar, 209 So. 5th St., Philadelphia, Pa. (33).
Morse, Charles J., Morse Bridge Co., Youngstown, Ohio (31).
Morse, H. L., M. D., Park Square, Boston, Mass. (31).
Morse, Mrs. Mary J., 57 Jackson St., Lawrence, Mass. (29).
Mortimer, Capt. John H., care of F. Habirshaw, 113 Maiden Lane, New York, N. Y. (31).
Morton, Miss Anna J., 1800 Michigan Ave., Chicago, Ill. (31).
Moser, Lieut. Jeff. F., U. S. N., Slatington, Pa. (28).
Mott, Dr. H. A., 61 Broadway, New York, N. Y. (27).
Mowry, Wm. A., 16 Hawley St., Boston, Mass. (29).
Muir, William, 1395 St. Catherine St., Montreal, Can. (31).
Müller, Herman E., M. D., Oakland, Cal. (32).
Munn, John P., M. D., 18 West 58th St., New York, N. Y. (31).
Munro, Rev. A. H., 340 Bleury St., Montreal, Can. (31).
Murdoch, John, Smithsonian Institution, Washington, D. C.(29).
Murdock, J. B., Lieut. U. S. N., 24 Alaska St., Roxbury, Mass. (28).
Murphy, Edward, 405 St. Paul St., Montreal, Can. (31).
Murphy, Patrick J., Columbia Hospital, Washington, D. C. (30).
Murray, Rev. Dr. J. Clark, 111 Mackay St., Montreal, Can. (31).
Murtfeldt, Miss Augusta, Kirkwood, Mo. (29).
Myers, John A., Agricultural College, Oktibbeha Co., Miss. (30).

Nachtrieb, Henry F., 15 North St., St. Paul, Minn. (29).
Nagel, Herman, M.D., 2044 Lafayette Avenue, St. Louis, Mo. (30).
Nesbit, Thos. Murray, Box 316, Lewisburg, Pa. (33).
Nesmith, Henry E., jr., 28 South St., New York, N. Y. (30).
Nettleton, A. B., Minneapolis, Minn. (31).
Nettleton, Chas., Room 20, 117 Broadway, New York, N. Y. (30).
Newberry, Prof. Spencer Baird, Ithaca, N. Y. (33).
Newington, Harry M., 2645 Washington Ave., St. Louis, Mo. (31).
Newton, Rev. John, Mary Esther, West Fla. (7).
Nicholas, Geo. Lawrence, Princeton, N. J. (33).
Nichols, A. B., Reynoldsville, Pa. (33).

Nichols, H. E., Lieut. Comdr. U. S. N., U. S. S. Pinta, Sitka, Alaska. (29).
Nicholson, Prof. Hunter, Knoxville, Tenn. (26).
Nolan, Edw. J., M. D., Acad. of Nat. Sciences, Philadelphia, Pa. (29).
Norman, Geo. H., C. E., Newport, R. I. (29).
Noyes, William A., Ph. D., Univ. of Tennessee, Knoxville, Tenn. (32).
Nunn, R. J., 119 York St., Savannah, Ga. (33).
Nuttall, L. W., Nuttallburg, Fayette Co., West Va. (29).

Ober, Frederick A., Beverly, Mass. (31).
O'Hara, Michael, M.D., 31 South 16th St., Philadelphia, Pa. (33).
Oliver, Dr. Charles A., 1507 Locust St., Philadelphia, Pa. (33).
Oliver, Prof. Marshal, U. S. N., Naval Acad., Annapolis, Md. (31).
Olmsted, Fred. Law, Brookline, Mass. (22).
Ordway, Mrs. John M., Tulane Univ., New Orleans, La. (29).
Orm, John, Paducah, McCracken Co., Ky. (27).
Ormond, Prof. Alexander T., Princeton, N. J. (32).
Osborn, Francis A., 43 Milk St., Boston, Mass. (29).
Osborne, Mrs. Ada M., Waterville, Oneida Co., N. Y. (19).
Osborne, Amos O., Waterville, Oneida Co., N. Y. (19).
Osgood, Joseph B F., Salem, Mass. (31).
Osmond, Prof. I. Thornton, State College, Centre Co., Pa. (33).
Owen, Frank A., 304 North St., Burlington, Vt. (31).
Owens, Mary E., 270 W. 7th St., Cincinnati, Ohio (30).
Owens, Wm., M.D., 270 W. 7th St., Cincinnati, Ohio (33).
Owens, Wm. G., Lewisburg, Union Co., Pa. (33).

Paddock, John R., Stevens Institute, Hoboken, N. J. (29).
Page, Dr. D. L., Lowell, Mass. (33).
Paine, Charles, 15 Broad St., New York, N. Y. (22).
Paine, Sidney B., P. O. Box 3311, Boston, Mass. (30).
Palmer, Miss Alice W., Bellevue St., Roxbury, Mass. (27).
Palmer, Rev. Benj. M., Box 1628, New Orleans, La. (21).
Palmer, Dr. Edward, Smithsonian Institution, Washington, D. C. (22).
Palmer, Miss Mary T., Bellevue St., Roxbury, Mass. (30).
Pardee, Walter S., Minneapolis, Minn. (32).
Parsons, Henry B., 72 William St., New York, N. Y. (30).
Patrick, Dr. J. J. R., Belleville, St. Clair Co., Ill. (27).
Patterson, Dr. Edw. Mortimer, Fredericton, N. B. (33).
Paul, Caroline A., M.D., Vineland, Cumberland Co., N. J. (23).
Paul, Prof. Henry M., U. S. N. Observ., Washington, D. C. (33).
Peabody, Prof. Cecil H., Mass. Inst. Technology, Boston, Mass. (32).
Peabody, Prof. S. H., Regent Illinois Industrial Univ., Champaign, Ill. (30).
Pearson, Rev. Arthur H., Northfield, Minn. (32).
Pease, Rufus D., M. D., 1331 Ridge Ave., Philadelphia, Pa. (33).
Peck, Mrs. John H., 3 Irving Place, Troy, N. Y. (28).

Peck, W. A., C. E., Surveyor General's Office, Denver, Col. (19).
Pedrick, Mrs. Wm. R., Lawrence, Mass. (33).
Peet, Emerson W. (32).
Peffer, George P., Pewaukee, Wis. (32).
Peirce, Benj. O., jr., Beverly, Mass. (29).
Peirce, Prof. C. S., Johns Hopkins Univ., Baltimore, Md. (30).
Peirce, Cyrus N., D.D.S., 1415 Walnut St., Philadelphia, Pa. (31).
Peirce, Harold, Joshua Peirce and Co., Bristol, Pa. (33).
Pennock, Edw., 805 Franklin St., Philadelphia, Pa. (29).
Percy, H. C., P. O. Box 173, Norfolk, Va. (32).
PERKINS, ARTHUR, 49 Woodland St., Hartford, Conn. (31).
Perkins, Prof. Herbert B., Appleton, Wis. (32).
Perrine, Fred. A. C., A. B., Freehold, N. J. (33).
Perry, Hon. Aaron F., Cincinnati, Ohio (30).
Peter, Alfred M., Lexington, Ky. (29).
Peters, Edw. T., P. O. Box 265, Washington, D. C. (33).
Peters, Judge Thos. M., Moulton, Ala. (29).
Pettee, Prof. C. H., Hanover, N. H. (31).
Phelps, A. M., M. D., Chateaugay, N. Y. (31).
Phelps, George, Nashua, N. H. (31).
Philbrick, Edw. S., Brookline, Mass. (29).
Phillips, Henry, jr., 320 South 11th St., Philadelphia, Pa.(32).
Pickering, T. R., Portland, Me. (33).
Pickett, Dr. Thos. E., Maysville, Mason Co., Ky. (25).
Pierce, Willard I., M. E., 104 W. 129th St., New York, N. Y. (33).
Pignolet, Louis H., 104 Famille St., Montreal, Can. (31).
Pike, J. W., Vineland, N. J. (29).
Pike, W. A., Univ. of Minn., Minneapolis, Minn. (29).
Pillsbury, J. E., Lieut. U. S. N., Commanding Coast Survey Steamer Blake, care Coast Survey Office, Washington, D. C. (33).
Pillsbury, Prof. John H., Smith College, Northampton, Mass. (23).
PIM, ADMIRAL BEDFORD, Leaside Upper Norwood, London, S. E., Eng. (33).
Pinkerton, T. H., M.D., Oakland, Alameda Co., Cal. (27).
Pirz, Anthony, Long Island City, N. Y. (29).
Pitman, Chas. B., Somerville, Mass. (29).
Pitt, Prof. William H., 138 College St., Buffalo, N. Y. (25).
Place, Edwin, Cincinnatus, N. Y. (33).
Platt, W. G., 615 Walnut St., Philadelphia, Pa. (32).
Pope, Frank L., Elizabeth, N. J. (33).
Porteous, John, 26 Prince Arthur St., Montreal, Canada (22).
Porter, Edward D., State Univ., Minneapolis, Minn. (32).
Porter, Thos. C., LL.D., Lafayette College, Easton, Pa. (33).
Potter, Rev. Henry C., 804 Broadway, New York, N. Y. (29).
Potter, Jotham, 104 Euclid Ave., Cleveland, Ohio (33).
Power, Prof. Frederick B., Univ. of Wis., Madison, Wis. (31).
Prang, Louis, 45 Centre St., Roxbury, Mass. (29).

Pray, Thomas, Jr., P. O. Box 2519, New York, N. Y. (33).
Prescott, Wm. I., 264 Race St., Cincinnati, Ohio (30).
Price, Eli Kirk, jr., 709 Walnut St., Philadelphia, Pa. (33).
Price, J. Sergeant, 709 Walnut St., Philadelphia, Pa. (33).
Prince, Gen. Henry, U. S. A., Eastport, Me. (22).
Prosser, Chas. Smith, B. S., Cornell Univ., Ithaca, N. Y. (33).
Prosser, Col. Wm. F., Prosser, Yakima Co., Washington Terr. (26)
Proudfoot, Alex., M. D., 2 Phillips Place, Montreal, Can. (31).
Pruyn, John V. L., jr., Albany, N. Y. (29).
Pulsifer, Mrs. C. Boardman, St. Louis, Mo. (33).
Purinton, Prof. D. B., Morgantown, W. Va. (31).
Purinton, Prof. George D., Greenville, S. C. (31).
Putnam, Chas. P., M. D., 63 Marlborough St., Boston, Mass. (28).
Putnam, Mrs. M. L. D., Davenport, Iowa (32).

Rains, Geo. W., M. D., LL. D., Augusta, Ga. (29).
Rand, C. F., M.D., Batavia, N. Y. (27).
Randolph, A. F., Fredericton, N. B. (29).
Randolph, L. S., Susquehanna Depot, Pa. (33).
Raser, J. Heyl, 42 W. Johnson St., Germantown, Pa. (33).
Rasin, R. W., Box 715, Baltimore, Md. (30).
Rau, Eugene A., Bethlehem, Pa. (33).
Rauch, Chas., 2414 Cecile St., St. Louis, Mo. (33).
Reading, Edgar, M. D., 3750 Langley Ave., Chicago, Ill. (32).
Redway, Prof. J. W., Washington Heights, Station M, N. Y. (33).
Reed, Edwin, 178 Devonshire St., Boston, Mass. (29).
Reed, Mrs. Ellen B., So. Div. High School, Chicago, Ill. (32).
Remington, Joseph Price, 1233 Walnut St., Philadelphia, Pa. (33).
Renninger, John S., M. D., Marshall, Minn. (31).
Reyburn, Robert, M.D., 2129 F St., N. W., Washington, D. C. (33).
Reynolds, Sheldon, Wilkes Barre, Pa. (33).
Rice, Herbert S., Lawrence, Mass. (32).
Rich, Jacob Monroe, 50 W. 38th St., New York, N. Y. (33).
Richards, Prof. Charles B., 43 Elm St., New Haven, Conn. (33).
Richards, Edgar, Dep't of Agric., Washington, D. C. (31).
Richardson, Tobias G., M. D., Tulane Univ., New Orleans, La. (30).
Ricketts, Prof. Palmer C., Rensselaer Polytechnic Inst., Troy, N. Y. (33).
Ricketts, Col. R. Bruce, Wilkes Barre, Pa. (33).
Rideout, Bates S., Bristol, Conn. (31).
Ridler, C. E., Box 245, cor. Berkeley and Boylston Sts., under Hotel Berkeley, Boston, Mass. (29).
Ries, Elias E., 145 So. Broadway, Baltimore, Md. (33).
Riggs, Geo. W., 115 West 47th St., New York, N. Y. (26).
Riley, Lewis A., Ashland, Pa. (33).
Riley, Mrs. Susan, Mobile, Ala. (31).
Ringueberg, Eugene N. S., Lockport, N. Y. (33).

Ripley, George C., Minneapolis, Minn. (32).
Ripley, Mrs. George C., Minneapolis, Minn. (32).
RIVERA, JOSÉ DE, Inwood-on-the-Hudson, New York, N. Y. (29).
Robbins, E. P., Room 12, Apollo Building, N. W. cor. Walnut and Fifth Sts., Cincinnati, Ohio (30).
Robbins, Miss Ida F., Arlington, Mass. (31).
Roberts, Prof. Isaac P., Ithaca, N. Y. (33).
Roberts, Prof. Milton Josiah, 105 Madison Ave., New York, N. Y. (33).
Roberts, Thos., Riverton, Burlington Co., N. J. (33).
Roberts, Thomas S., 27 North 8th St., Minneapolis, Minn. (31).
Robertson, Andrew, Montreal, Can. (31).
Robertson, Col. D. A., St. Paul, Minn. (32).
ROBERTSON, THOMAS D., Rockford, Ill. (10).
Robeson, Henry B., care Mills, Robeson & Smith, 34 Wall St., New York, N. Y. (29).
Robins, Sampson P., LL. D., Hochelaga, P. Q., Can. (31).
Robinson, Prof. Franklin C., Brunswick, Me. (29).
Robinson, Prof. Otis Hall, 273 Alexander St., Rochester, N. Y. (23).
Robinson, Prof. Thomas, Howard Univ., Washington, D. C. (33).
Robson, Miss Kate, 186 East Michigan St., Indianapolis, Ind. (32).
Roeder, Prof. F. A., Ohio Medical College, Cincinnati, Ohio (30).
Rogers, Dr. H. Raymond, Dunkirk, N. Y. (30).
Rolfe, Charles W., Champaign, Ill. (32).
Roosevelt, Hon. Robert B., 17 Nassau St., New York, N. Y. (33).
Roots, G. Y., N. W. cor. 4th and Walnut Sts., Cincinnati, Ohio (30).
Ross, M. D., Boston, Mass. (29).
Rothrock, Prof. Jos. T., West Chester, Pa. (33).
Rowell, Chas. E., M. D., Stamford, Conn. (33).
Roy, Rev. James, Cobourg, Ont., Can. (31).
Rumsey, Bronson C., 58 & 60 Exchange St., Buffalo, N. Y. (15).
Russell, Champion B., Millbrook Ranch, Laramie City, Wyo. Terr. (33).
Russell, Henry C., 732 N. 42nd St., W. Philadelphia, Pa. (33).
Russell, Dr. Linus E., Springfield, Ohio (30).
Russell, W. H. H., 206 Broadway, New York, N. Y. (24).
Rust, Horatio N., South Pasadena, Los Angeles Co., Cal. (26).
Ryder, John A., Box 74, Smithsonian Institution, Washington, D. C. (33).

Sabin, Prof. Alvah H., 457 Main St., Burlington, Vt. (31).
Sabine, Annie W., Columbus, Ohio (33).
Safford, Charles W., Rutland, Vt. (26).
Safford, Dr. Mary J., 308 Columbus Ave., Boston, Mass. (31).
Sage, John H., Portland, Conn. (23).
Salmon, Daniel E., Dep't of Agric., Washington, D. C. (31).
Sanborn, Prof. Jeremiah Wilson, Missouri Agric. Coll., Columbia, Mo. [(31).
Sanborn, Rev. John W., Batavia, N. Y. (33).
Sander, Dr. Enno, St. Louis, Mo. (27).
Sands, Ferdinand, care Oakes M'f'g Co., Steinway, Queens Co., L. I. (33).

Saville, James H., 342 D St., N. W., Washington, D. C. (29).
Sayre, Robert H., Bethlehem, Pa. (28).
Scammon, J. Young, Chicago, Ill. (17).
SCHAFFER, CHAS., M. D., 1309 Arch St., Philadelphia, Pa. (29).
Schaffranck, Dr. A., Box 424, Wheeling, W. Va. (27).
Scharar, Christian H., 2073 North Main Ave., Scranton, Pa. (33).
Schaub, Julius W., St. Louis, Mo. (27).
Schmid, Dr. H. Ernest, White Plains, N. Y. (25).
Schmidt, Dr. H. D., 263½ Canal St., New Orleans, La. (29).
Schober, Frederick 478 N. 5th St., Philadelphia, Pa. (33).
Schöney, Dr. L., 672 Lexington Ave., New York, N. Y. (29).
Schram, Nicholas H., Newburgh, N. Y. (33).
Schultz, Carl H., 860 Broadway, New York, N. Y. (29).
Schultze, Edwin A., P. O. Box 56, New York, N. Y. (33).
Schwarz, E. A., U. S. Dept. of Agric., Washington, D. C. (29).
Scofield, W. H., Cannon River Falls, Goodhue Co., Minn. (32).
Scott, Andrew J., M. D., Loudonville, Ohio (32).
Scott, Aug. E., Lexington, Mass. (29).
Scott, Chas. B., 907 Walnut St., Philadelphia, Pa. (33).
Scott, John B., 1520 Arch St., Philadelphia, Pa. (33).
Scott, Miss L. Content, Loudonville, Ohio (32).
Scott, Martin P., M. D., Blacksburg, Va. (31).
Scott, Prof. Wm. B., Princeton, N. J. (33).
Scoville, S. S., M.D., Lebanon, Ohio (30).
Scribner, Edward E., St. Paul, Minn. (32).
Scribner, the Hon. G. Hilton, Yonkers, N. Y. (30).
Scudder, John M., M. D., Cincinnati, Ohio (30).
Seagrave, Frank E., Providence, R. I. (28).
Seaman, L. L., M.D., Chief of Staff, Charity Hospital, Blackwell's Island, New York, N. Y. (33).
Sedgwick, Prof. Wm. T., Mass. Inst. of Technology, Boston, Mass. (33).
Seeley, Chas. A., 714 Lexington Ave., New York, N. Y. (18).
Senecal, L. A., 17 Place d'Armes Square, Montreal, Can. (31).
Sennett, George B., Meadville, Pa. (31).
Sewall, Hannah R., 481 Carroll St., St. Paul, Minn. (32).
Sewall, Susan W., 481 Carroll St., St. Paul, Minn. (32).
Seymour, Prof. William P., 105 Third St., Troy, N. Y. (19).
Seyms, George H., 181 Collins St., Hartford, Conn. (31).
Shackelford, Mrs. Elizabeth P., Saratoga Springs, N. Y. (28).
Shackelford, G. R. P., Saratoga Springs, N. Y. (29).
Shackelford, Rev. J. W., 111 E. 82nd St., New York, N. Y. (29).
Shakespeare, E. O., M.D., 1336 Spruce St., Philadelphia, Pa. (33).
Share, William W., 336 Navy St., Brooklyn, N. Y. (31).
Sharp, Prof. Benj., Acad. Nat. Sciences, Philadelphia, Pa. (33).
Sharpless, Prof. Isaac, Haverford College, Pa. (33).
SHEAFER, A. W., Pottsville, Pa. (28).

Sheafer, Walter S., Pottsville, Pa. (25).
Shearer, James, Montreal, Can. (31).
Shearer, John S., Montreal, Can. (31).
Shelton, Prof. Edward M., Manhattan, Kansas (32).
Shepard, Rev. Morrill A., Lebanon, St. Clair Co., Ill. (30).
Shepard, William A., Saratoga Springs, N. Y. (28).
Shepherd, F. A., 25 North Vine Street, Nashville, Tenn. (26).
Sheppard, Sam'l A. D., Boston, Mass. (29).
Sherman, Prof. F. A., Hanover, N. H. (29).
Sherman, Lewis, M. D., 171 Wisconsin St., Milwaukee, Wis. (30).
Shiverick, Asa F., Woods Holl, Mass. (33).
Short, Sidney H., Denver, Col. (28).
Shultz, Charles S., Hoboken, N. J. (31).
Sibbald, The Rev. E. W., Belleville, Ont., Can. (33).
Silliman, Wyllis A., Clarkson, N. Y. (31).
Silver, Wm. J., P. O. Box 546, Salt Lake City, Utah Terr. (33).
Simon, Dr. Wm., 10 Block St., Baltimore, Md. (29).
Simonds, Prof. Frederic W., San José, Cal. (25).
Simpson, E., Commodore U. S. N., U. S. Navy Yard, League Island, Pa. (28).
Skinner, George, Kalida, Putnam Co., Ohio (33).
Slade, Elisha, Somerset, Mass. (29).
Smead, Miss Marian M., Batavia, N. Y. (31).
Smedley, Sam'l L., Chief Eng., City Hall, Philadelphia, Pa. (33).
Smith, Benj. G., Cambridge, Mass. (29).
Smith, Prof. C. Alfred, Hulton, Allegheny Co., Pa. (30).
Smith, Charles H., New Haven, N. Y. (33).
Smith, Prof. Charles J., Cleveland, Ohio (32).
Smith, Prof. Edgar F., Springfield, Ohio (33).
Smith, Miss Ellen E., Lake Erie Seminary, Painesville, Ohio (32).
Smith, Dr. H. A., 286 Race St., Cincinnati, Ohio (30).
Smith, Henry L., 149 Broadway, New York, N. Y. (26).
Smith, Mrs. Henry L., 149 Broadway, New York, N. Y. (26).
Smith, Henry T., Buffalo, N. Y. (25).
Smith, Herbert E., M. D., Professor of Chem., Med. Dep't, Yale College, New Haven, Conn. (31).
Smith, Prof. Herbert S. S., College of New Jersey, Princeton, N. J. (29).
Smith, Herbert W., Academy of Sciences, Box 2621, St. Paul, Minn. (26).
Smith, Mrs. J. Lawrence, Louisville, Ky. (26).
Smith, Miss Jennie, Peabody Mus., Cambridge, Mass. (29).
Smith, John B., 290 3d Ave., Brooklyn, N. Y. (32).
Smith, Lyndon A., Washington, D. C. (33).
Smith, Oberlin, Bridgeton, N. J. (33).
Smith, Prof. Thomas A., Beloit, Wis. (33).
Smith, Prof. Thomas B., Glasgow, Mo. (30).

Smith, Thomas H., 161 La Salle St., Chicago, Ill. (31).
Smith, Uselma C., 707 Walnut St., Philadelphia, Pa. (33).
Smucker, Isaac, Newark, Ohio (29).
Smyth, Prof. Jas. D., Burlington, Iowa (28).
Snelling, Geo. H., Hotel Berkeley, Boston, Mass. (29).
Snyder, Miss Elizabeth, 2002 Columbia Ave., Philadelphia, Pa. (33).
Snyder, Henry, jr., Institute for the Blind, Columbus, Ohio (30).
Soley, John C., Lieut. U. S. N., Navy Dept., Washington, D. C. (29).
Solomons, Miss Augusta I., Sumter, S. C. (31).
Solomons, Miss Kate C., Sumter, S. C. (31).
Solomons, Miss Maude C., Sumter, S. C. (31).
Soule, R. H., Frankfort, N. Y. (33).
Soule, Wm., Ph.D., Mount Union, Ohio (33).
Spafford, F. A., M. D., Flandreau, Moody Co., Dakota Terr. (29).
Speck, Hon. Charles, St. Louis, Mo. (27).
Speir, Francis, jr., South Orange, N. J. (29).
Spence, Mrs. E. Jane, Springfield, Ohio (30).
Spencer, Geo. S., St. Cloud, Minn. (32).
Sperry, Chas., Westbrook, Conn. (33).
Sperry, Prof. Lyman B., Northfield, Minn. (32).
Spilsbury, E. Gybbon, Pelham Manor, West Chester Co., N. Y. (33).
SPRAGUE, C. H., Malden, Mass. (29).
Sprague, Chas. J., Globe Nat. Bank, Boston, Mass. (29).
Sprague, Frank J., care of Thos. A. Edison, No. 65 Fifth Ave., New York, N. Y. (29).
Stæbner, Fred W., Westfield, Mass. (28).
Stam, Colin F., Chestertown, Md. (33).
Starr, Charles S., M. D., Rochester, N. Y. (31).
Stearns, Silas, Assistant U. S. Fish Commission, Pensacola, Fla. (28).
Stearns, Winfrid Alden, Amherst, Mass. (23).
Stebbins, James H., jr., 119 Pearl St., New York, N. Y. (31).
Steele, Joel Dorman, The Gables, Elmira, N. Y. (33).
Stern, David, care B. Stern, Cincinnati, Ohio (30).
Stevens, Mrs. Elizabeth R., Lowell, Mass. (32).
Stevens, Geo. T., M. D., 33 West 33d St., New York, N. Y. (28).
Stevens, R. P., 207 Atlantic Ave., Brooklyn, N. Y. (18).
Stevenson, Mrs. Cornelius, Chestnut Hill, Philadelphia, Pa. (33).
Stevenson, James, Ass't Ethnologist, Washington, D. C. (29).
Stevenson, W. G., M. D., Poughkeepsie, N. Y. (28).
Stillman, W. O., M. D., 86 South Swan St., Albany, N. Y. (28).
Stillwell, Charles M., Box 1261, New York, N. Y. (30).
Stimpson, Thomas M., Peabody, Mass. (18).
Stimson, E. R., Toronto, Ontario (31).
Stockbridge, Horace E., Amherst, Mass. (31).
Stockbridge, Levi, Amherst, Mass. (31).
Stone, Mrs. Alfred, Providence, R. I. (31).
Stone, Henry, cor. Broadway and N St., South Boston, Mass. (31).

Stone, Rev. James A. B., Detroit, Mich. (31).
Stone, Leander, 3352 Indiana Ave., Chicago, Ill. (32).
Stone, Lincoln R., M. D., Newton, Mass. (31).
Stone, Miss Mary H., Salem, Mass. (25).
Stone, Winthrop E., B.S., Amherst, Mass. (33).
Storer, Dr. D. H., Boston, Mass. (1).
Stowell, John, 48 Main St., Charlestown, Mass. (21).
Stowell, Prof. T. B., Cortland, N. Y. (28).
Strieby, Prof. William, Colorado Springs, Col. (31).
Stringham, Prof. Irving, Univ. of Cal., Berkeley, Cal. (33)..
Studer, Jacob H., Tribune Building, New York, N. Y. (31).
Sullivan, J. A., Malden, Mass. (27).
Sullivan, James F., 1800 Spring Garden St., Philadelphia, Pa. (33).
Swartz, James S., 234 So. 4th St., Philadelphia, Pa. (33).
Swasey, Oscar F., M.D., Beverly, Mass. (17).
Sweeny, Dr. R. O., St. Paul, Minn. (32).

Tatum, Jos. T., 221 Chestnut St., St. Louis, Mo. (27).
Taylor, Franklin, Philadelphia, Pa. (33).
Taylor, Frederick W., Smithsonian Institution, Washington, D. C. (31).
Taylor, G. Morrison, 233 So. 4th St., Philadelphia, Pa. (33).
Taylor, Comdr. H. C., U. S. N., Poughkeepsie, N. Y. (30).
Taylor, Prof. Jas. M., Hamilton, Madison Co., N. Y. (33).
Taylor, Thos., M. D., Dept. of Agric., Washington, D. C. (29).
Taylor, William, 912 New York Ave., Washington, D. C. (33).
Tepper, Fred., Box 3331, New York, N. Y. (29).
Terry, James, American Museum Natural History, Central Park (77th St. and 8th Ave.), New York, N. Y. (28).
Theobald, Albert G. R., Forest Dept., Anamalai, Coimbatore District, India (27).
Thomas, F. Wolferstan, Montreal, Can. (31).
Thomas, N. Wiley, Ph. D., 1513 Centennial Ave., Philadelphia, Pa. (33).
Thompson, Alton Howard, 237 Kansas Ave., Topeka, Kan. (33).
Thompson, Prof. Chas. O., Terre Haute, Ind. (29).
Thompson, Daniel G., 29 William St., New York, N. Y. (29).
Thompson, Mrs. Frank, Merion Station, Penn. R. R., Pa. (33).
Thompson, Harvey M., 638 West Lake St., Chicago., Ill. (17).
Thompson, J. E., Spalding, Mich. (31).
Thompson, Miss Marie N., 323 Elm St., Cincinnati, Ohio (30).
Thompson, S. A., Minneapolis, Minn. (32).
Thompson, W. W., care Jeffras Seely & Co., Cincinnati, Ohio (30).
Thomson, Prof. A., Ames, Iowa (21).
Thomson, Prof. Henry R., Crawfordsville, Ind. (30).
Thomson, Wm., M. D., 1426 Walnut St., Philadelphia, Pa. (33).
Thorburn, John, LL. D., Ottawa, Ont., Can. (29).
Thornton, Prof. Wm. M., Univ. of Va., Va. (33).
Thurber, Miss Elizabeth, Plymouth, Mass. (22).

Tiffany, Asa S., 901 West 5th St., Davenport, Scott Co., Iowa (27).
Tiffin, Mrs. Joseph, jr., cor. Sherbrooke and University Sts., Montreal, Can. (31).
Tileman, J. N., Sandy, Utah Terr. (33).
Timby, Theo. R., Nyack, N. Y. (29).
Tittmann, Otto H., U.S. Coast and Geodetic Survey Office, Washington, D. C. (24).
Todd, Albert, St. Louis, Mo. (27).
Todd, Andrew J., 261 Broadway, New York, N. Y. (29).
Todd, Prof. James E., Tabor, Fremont Co., Iowa (22).
Tolman, James P., West Newton, Mass. (29).
Tomlinson, Dr. J. M., 28½ East Ohio St., Indianapolis, Ind. (20).
Torrey, Herbert G., U. S. Assay Office, 30 Wall St., New York, N. Y. (31).
Towne, Henry R., Pres. Yale and Towne M'f'g Co., Stamford, Conn. (33).
Townsend, David, 1723 Wallace St., Philadelphia, Pa. (33).
Townsend, Mrs. David, 1723 Wallace St., Philadelphia, Pa. (33).
Townsend Franklin, 4 Elk St., Albany, N. Y. (4).
Townsend, Henry C., 709 Walnut St., Philadelphia, Pa. (33).
Townsend, Joseph, Durham, Ontario, Can. (31).
Tracy, Will W., Detroit, Mich. (30).
Treadwell, Geo. A., Phœnix, Arizona (29).
Treat, Erastus B., Publisher and Bookseller, 771 Broadway, New York, N. Y. (29).
Treat, Mrs. Mary, Vineland, N. J. (33).
Triplett, Wm. H., M. D., 116 W. 44th St., New York, N. Y. (28).
Trippe, T. Martin, C. E., Howardsville, San Juan Co., Col. (29).
Troop, James, Agricultural College, Lansing, Mich. (31).
Trottier, A. A., Montreal, Can. (31).
Trowbridge, Mrs. L. H., 266 Woodward Ave., Detroit, Mich. (21).
Trowbridge, Luther H., 266 Woodward Ave., Detroit, Mich. (29).
Tucker, Willis G., M. D., Albany Medical Coll., Albany, N. Y. (29).
Tyler, Edward R., Washington, D. C. (31).
Tyler, John M., Amherst, Mass. (29).

Underwood, Prof. Lucien M., 214 East Genesee St., Syracuse, N. Y. (33).

Vail, Prof. Hugh D., Santa Barbara, Cal. (18).
Valentine, Benj. B., Richmond, Va. (33).
Valentine, Edw. P., Richmond, Va. (33).
Valentine, Ferdinand C., M. D., 30 West 11th St., New York, N. Y. (31).
Vallandigham, James L., LL.D., Newark, Del. (33).
Van Brunt, C., P. O. Box 1119, New York, N. Y. (28).
Vasey, George, M. D., Dept. of Agric., Washington, D. C. (32).
Vaux, Geo., jr., 1715 Arch St., Philadelphia, Pa. (33).
Vermyné, J. J. B., M. D., 98 Spring St., New Bedford, Mass. (29).
Very, Samuel W., Lieut. U. S. N., Warehouse Point, Conn. (28).

Viele, Gen. Egbert L., Riverside Ave. and 88th St., New York, N. Y. (33).
Vieth, William, cor. 8th and Freeman Sts., Cincinnati, O. (28).
Vining, Edward P., Omaha, Neb. (32).
Vodges, A. W., 1st Lt. 5th Art'y U. S. A., The Military Service Institution, Governor's Island, N. Y. (32).
Volney, C. W., Ph. D., 52 Wall St., New York, N. Y. (31).
Voorhees, Chas. H., M. D., P. O. Lock Box 120, New Brunswick, N. J. (29).
Vredenburgh, Edw. H., Rochester, N. Y. (29).
Vultë, Hermann T., Ph. B., School of Mines, Columbia College, New York, N. Y. (30).

Wagner, Ferd., 41 W. 5th St., Cincinnati, Ohio (30).
Wakeman, Thaddeus B., 93 Nassau St., New York, N. Y. (25).
Waldstein, Martin E., Ph. D., 44 Trinity Place, New York, N. Y. (32).
Walker, Dr. G. S., St. Louis, Mo. (27).
Walker, George C., 124 La Salle St., Chicago, Ill. (17).
Walker, Philip, Dept. of Agric., Washington, D. C. (33).
Wall, John L., 338 Sixth Avenue, New York, N. Y. (27).
Wallis, John M., C. E. (32).
Walter, Robert, M. D., Walter's Park P. O., Wernersville, Pa. (33).
Walton, Jos. J. (29).
Walworth, Rev. Clarence A., Albany, N. Y. (28).
Wanamaker, John, 1336 Walnut St., Philadelphia, Pa. (33).
Wanless, John, M. D., 88 Union Ave., Montreal, Can. (31).
Ward, J. Langdon, 120 Broadway, New York, N. Y. (29).
Ward, Samuel B., M. D., Albany, N. Y. (29).
Wardwell, George J., Rutland, Vt. (20).
Waring, Col. George E., jr., Newport, R. I. (29).
Waring, John, Ovid, N. Y. (33).
Warnecke, Prof. Carl, 157 St. Constant St., Montreal, Can. (31).
Warner, Hulbert H., Rochester, N. Y. (31).
Warner, Mrs. J. D., 199 Baltic St., Brooklyn, N. Y. (21).
Warner, John De Witt, 52 William St., New York, N. Y. (33).
Warner, Worcester R., E. Prospect St., Cleveland, Ohio (33).
Warnock, James, 93 Reade St., New York, N. Y. (29).
Warren, Chas., M. D., 1208 N St., N. W., Washington, D. C. (31).
Warren, Joseph W., M. D., 107 Boylston St., Boston, Mass. (31).
Warren, Samuel D., 220 Devonshire St., Boston, Mass. (29).
Warren, Mrs. Samuel D., 67 Mt. Vernon St., Boston, Mass. (29).
Warren, Wm. J., Minneapolis, Minn. (30).
Washburn, John H., Bridgewater, Mass. (31).
Waterhouse, Ai, M. D., Jamestown, N. Y. (29).
Waters, Edwin F., Newton Centre, Mass. (29).
Waters, Geo. F., 8 Beacon St., Boston, Mass. (29).
Waters, Jabez M., 9th and Freeman Sts., Cincinnati, Ohio (30).
Watson, Miss C. A., Salem, Mass. (31).

Watt, David A. P., Montreal, Can. (31).
Weaver, Lemuel, Urbana, Ohio (32).
Webb, Miss Sarah E., Elizabeth, N. J. (33).
Weed, Walter H., 6 Pine St., New York, N. Y. (31).
Weeden, Hon. Joseph E., Randolph, N. Y. (31).
Weitbrecht, George, 469 North St., St. Paul, Minn. (32).
Weld, Mrs. Amy T., 119 East 23rd St., New York, N. Y. (28).
Wells, Mrs. C. F., 753 Broadway, New York, N. Y. (31).
Wells, Rev. Martin L., Aurora, Ind. (30).
Wells, Samuel, 31 Pemberton Square, Boston, Mass. (24).
Welsh, John, 304 Walnut St., Philadelphia, Pa. (33).
Wendell, Oliver C., Observatory, Cambridge, Mass. (29).
Wendte, Rev. C. W., Newport, R. I. (29).
West, Arthur W., Salem, Mass. (31).
West, E. P., State Univ., Lawrence, Kan. (33).
Westbrook, Benj. F., M.D., 174 Clinton St., Brooklyn, N. Y. (33).
Weston, Edward, 107 Orange St., Newark, N. J. (33).
Wetherill, Miss J. J. (33).
Wheeler, Herbert A., Washington Univ., St. Louis, Mo. (33).
Wheeler, T. B., M. D., 714 Craig St., Montreal, Canada (11).
Wheildon, Miss Alice W., Concord, Mass. (31).
Whelen, Edw. S., Torrisdale P. O., Philadelphia, Pa. (33).
Whetstone, John L., N. W. cor. 8th St., and Eggleston Avenue, Cincinnati, Ohio (30).
Whitaker, Prof. Channing, Box 524, Lowell, Mass. (29).
Whitall, Henry, 1019 No. 3d St., Camden, N. J. (33).
White, Prof. Charles Joyce, Cambridge, Mass. (29).
White, Ernest William, 1634 So. Juniper St., Philadelphia, Pa. (33).
White, Miss Florence, Mills Seminary, Alameda Co., Cal. (29).
White, Prof. H. C., Univ. of Georgia, Athens, Ga. (29).
White, James W., M.D., Chestnut, S. E. cor. 12th St., Philadelphia, Pa. (33).
White, LeRoy S., Box 157, Waterbury, Conn. (23).
Whiteaves, J. F., Geological Survey, Ottawa, Can. (31).
Whitehouse, F. Cope, Brevoort House, New York, N. Y. (31).
Whiting, S. B., Pottsville, Pa. (33).
Whitman, Edmund B., 36 Trowbridge St., Cambridge, Mass. (29).
Whitman, Prof. Frank P., Rensselaer Polytechnic Inst., Troy, N. Y. (33).
Whitman, Gilbert P., Manchester, N. H. (30).
Wicksteed, Richard John, LL. D., House of Commons, Ottawa, Province of Ont., Can. (29).
Wiechmann, F. G., School of Mines, Columbia College, New York, N. Y. (30).
Wilber, Francis A., Rutgers College, New Brunswick, N. J. (31).
Wilbour, Mrs. Charlotte B., care J. M. Furley, 74 W. 35th St., New York, N. Y. (28).
Wilcox, Miss Emily T., 85 Second St., Troy, N. Y. (33).

Wilder, Alex., M. D., 565 Orange St., Newark, N. J. (29).
Wilder, Graham, Louisville, Ky. (30).
Wilkinson, Mrs. L. V., Brazeau P. O., Perry Co., Mo. (30).
Willcox, Joseph, Media, Pa. (33).
Willetts, Joseph C., Skaneateles, N. Y. (29).
Williams, Benezette, 171 La Salle St., Chicago, Ill. (33).
Williams, David, 83 Reade St., New York, N. Y. (29).
Williams, Mrs. Drue T., Greensburg, Decatur Co., Ind. (30).
Williams, Dr. E., 64 W. 7th St., Cincinnati, Ohio (30).
Williams, Prof. Edward H., jr., Box 463, Bethlehem, Pa. (25).
Williams, Emma M., M. D., 1423 Locust St., Philadelphia, Pa. (33).
Williams, Francis H., M. D., 15 Arlington St., Boston, Mass. (29).
Williams, Frank, Buffalo, N. Y. (25).
Williams, Geo. Huntington, Johns Hopkins Univ., Baltimore, Md. (33).
Williams, J. Francis, Salem, N. Y. (31).
Williams, Janet W., Newton Lower Falls, Mass. (31).
Williams, P. O., M.D., Watertown, Jefferson Co., N. Y. (24).
Williams, Prof. S. G., Cornell Univ., Ithaca, N. Y. (33).
Williamson, Prof. Andrew W., Rock Island, Ill. (32).
Willoughby, Hugh L., Saratoga Springs, N. Y. (28).
Wills, William R., Waltham, Mass. (30).
Willson, Prof. Frederick N., Princeton, N. J. (33).
Willson, Robert W., care Rev. E. B. Willson, Salem, Mass. (30).
Willson, Z. G. (32).
Wilmot, Thos. J., Commercial Cable Co., 4 Arch St., Boston, Mass. (27).
Wilson, C. H., Rugby, Tenn. (30).
Wilson, Chas. M., M.D., 1517 Walnut St., Philadelphia, Pa. (33).
Wilson, H. C., Cincinnati Observatory, Mt. Lookout, Hamilton Co., O. (30).
Wilson, Horace E., 1514 10th St. N., Minneapolis, Minn. (32).
Wilson, J. M., State Normal School, Oshkosh, Wis. (33).
Wilson, Dr. James C., 1437 Walnut St., Philadelphia, Pa. (33).
Wilson, Joseph M., 435 Chestnut St., Philadelphia, Pa. (33).
Wilson, M. C., Florence, Ala. (26).
Wingate, Miss Hannah S., 208 Raymond St., Brooklyn, N. Y. (31).
Winlock, Wm. C., U. S. Observ., Washington, D. C. (33).
Winslow, Sam'l W., Room 30, Rialto Building, 131 Devonshire, cor. Milk St., Boston, Mass. (29).
Winston, Prof. Chas. H., Richmond College, Richmond, Va. (30).
Wisser, John P., 1st Lt. 1st Art'y, care Adj. Gen. U. S. A., Washington, D. C. (33).
Wister, Mrs. Caspar, 1303 Arch St., Philadelphia, Pa. (33).
Wister, Mrs. Owen J. (33).
Witherowe, James P., Pittsburgh, Pa. (33).
Withers, W. A., Raleigh, N. C. (33).
Wolcott, Mrs. Henrietta L. T., Dedham, Mass. (29).
Wood, Dr. Robert W., Jamaica Plain, Mass. (29).
Wood, Walter, 400 Chestnut St., Philadelphia, Pa. (33).
Woodward, R. S., care U. S. Geol. Survey, Washington, D. C. (33).

Woodward, Richard W., 10 College St., New Haven, Conn. (29).
Worthen, T. W. D., Hanover, N. H. (28).
WRIGHT, ELIZUR, Box 109, Boston, Mass. (31).
Wright, Harrison, Sec'y Wyoming Hist. and Geol. Soc., Wilkes Barre, Pa. (29).
Würtele, Miss Minnie, Acton Vale, P. Q., Can. (32).
Wylie, Samuel B., 924 Chestnut St., Philadelphia, Pa. (30).
Wylie, Rev. T. W. J., D.D., 1824 Wylie St., Philadelphia, Pa. (33).

Youmans, Wm. Jay, M. D., Popular Science Monthly, 549 Broadway, New York, N. Y. (28).
Young, A. V. E., Harvard Chemical Laboratory, Cambridge, Mass. (33).
Young, Prof. Andrew H., Hanover, Ind. (30).
Young, Chas. Ira, care Prof. C. A. Young, Princeton, N. J. (33).

Zimmerman, Charles D., Buffalo, N. Y. (30).
Zimmerman, William, 164 Dearborn St., Chicago, Ill. (30).

[1517 MEMBERS.]

NOTE.—The omission of an address in the foregoing list indicates that letters directed to that last printed were returned as uncalled for. Information of the present address of the members so indicated is requested by the PERMANENT SECRETARY.

HONORARY FELLOW.[1]

*ROGERS, PROF. WILLIAM B., 117 Marlborough St., Boston, Mass. (1). 1881.

FELLOWS.[2]

Abbe, Prof. Cleveland, Army Signal Office, Washington, D. C. (16). 1874.
Abbott, Dr. Chas. C., Trenton, N. J. (29). 1883.
Alexander, John S., 1935 Arch St., Philadelphia, Pa. (20). 1874.
Allen, Joel A., Am. Mus. of Nat. History, Central Park, New York. (18). 1875.
Alvord, Henry E., C. E., Houghton Farm, Mountainville, Orange Co., N. Y. (29). 1882.
Ammen, Daniel, Rear Admiral U. S. Navy, Ammendale, Prince George Co., Md. (26). 1881.
Anderson, Dr. Joseph, Waterbury, Conn. (29). 1883.
Anthony, Prof. Wm. A., Cornell Univ., Ithaca, N. Y. (28). 1880.
Arthur, J. C., Geneva, N. Y. (21). 1883.
Ashburner, Charles A., 907 Walnut St., Philadelphia, Pa. (31). 1883.
Ashburner, Wm., 1014 Pine St., San Francisco, Cal. (29). 1882.
Atkinson, Edward, 31 Milk St., Boston, Mass. (29). 1881.
Atwater, Prof. W. O., Wesleyan Univ., Middletown, Conn. (29). 1882.
Austen, Peter T., Ph. D., Rutgers College, Lock Box No. 2, New Brunswick, N. J. (26). 1879.

Bailey, Prof. W. W., Brown University, Providence, R. I. (18). 1874.
Baird, Prof. S. F., Sec'y Smithsonian Inst., Washington, D. C. (1). 1875.
Baker, Marcus, Coast and Geodetic Survey Office, Washington, D. C. (30). 1882.
Ballou, Geo. F., Hartford, Conn. (29). 1881.
BARKER, PROF. G. F., Univ. of Penn., Philadelphia, Pa. (13). 1875.
Barnard, Edward E., Observ. of Vanderbilt Univ., Nashville, Tenn. (26). 1883.
Barnard, F. A. P., President Columbia College, New York, N. Y. (7). 1874.
Barnard, Prof. Wm. S., U. S. Dept. Agric., Washington, D. C. (24). 1880.
Bartlett, Prof. Edwin J., Dartmouth College, Hanover, N. H. (28). 1883.

[1] See ARTICLE VI of the Constitution. [2] See ARTICLE IV of the Constitution.

*** The number in parenthesis indicates the meeting at which the member joined the Association; the date at the end of the line the time when made a Fellow.

When the name is given in small capitals, it designates that the Fellow is also a life member, and is entitled to the Annual Volume of Proceedings.

* Deceased.

Bartlett, John R., Comd'r U. S. N., Navy Dep't, Washington, D. C. (30). 1882.
Bassett, Homer F., Waterbury, Conn. (23). 1874.
Batchelder, Dr. J. H., Salem, Mass. (18). 1874.
Batchelder, John M., 3 Divinity Avenue, Cambridge, Mass. (8). 1875.
Bausch, Edward, Rochester, N. Y. (26). 1883.
Beal, Prof. Wm. James, Agricultural College, Ingham Co., Mich. (24). 1880.
Belknap, George E., Capt. U. S. N., care Fred. L. Wheeler & Co., Box 3522, Boston, Mass. (29). 1881.
Bell, Dr. Alex. Graham, Scott Circle, 1500 Rhode Island Ave., Washington, D. C. (26). 1879.
Bell, Samuel N., Manchester, N. H. (7). 1874.
Bessey, Prof. Charles E., Univ. of Nebraska, Lincoln, Neb. (21). 1880.
Bethune, Rev. C. J. S., Trinity Coll. School, Pt. Hope, Canada (18). 1875.
Beyer, Henry G., Passed Ass't Surgeon U. S. N., Bureau Med. and Surg., Navy Dep't, Washington, D. C. (31). 1884.
Bickmore, Prof. Albert S., American Museum of Natural History, 8th Ave. and 77th St., Central Park, New York, N. Y. (17). 1880.
Billings, John S., Surgeon U. S. A., Surg. Gen'ls Office, Washington, D. C. (32). 1883.
Blackham, George E., M. D., Dunkirk, N. Y. (25). 1883.
Blake, Clarence J., M. D., Hotel Berkeley, Boston, Mass. (24). 1877.
Blake, Eli W., New Haven, Conn. (1). 1874.
Blake, Prof. Eli W., jr., Brown Univ., Providence, R. I. (15). 1874.
Blake, Francis, Auburndale, Mass. (23). 1874.
Blake, Prof. John R., Greenwood, S. C. (29). 1884.
Bolton, Dr. H. Carrington, Trinity Coll., Hartford, Conn. (17). 1875.
Borden, Spencer, Fall River, Mass. (29). 1882.
Bouvé, Thos. T., Boston Soc. Nat. Hist., Boston, Mass. (1). 1875.
Bowditch, Prof. H. P., Jamaica Plain, Mass. (28). 1880.
Bowditch, Henry I., M.D., 113 Boylston St., Boston, Mass. (2). 1875.
Bowser, Prof. E. A., Rutgers College, New Brunswick, N. J. (28). 1881.
Brackett, Prof. C. F., College of New Jersey, Princeton, N. J. (19). 1875.
Brewer, Prof. Wm. H., New Haven, Conn. (20). 1875.
Brewster, William, 61 Sparks St., Cambridge, Mass. (29). 1884.
Britton, N. L., Columbia College, New York, N. Y. (29). 1882.
Broadhead, Garland Carr, Pleasant Hill, Cass Co., Mo. (27). 1879.
Brooks, Major Thomas B., Geol. State Surveys, Mich. and Wis., Newburgh, N. Y. (26). 1879.
Bross, Hon. Wm., Tribune Office, Chicago, Ill. (7). 1874.
Brown, Robert, jr., care of Yale College Observatory, New Haven, Conn. (11). 1874.
Brown, Mrs. Robert, jr., New Haven, Conn. (17). 1874.
Brush, Prof. George J., Yale College, New Haven, Conn. (4). 1874.
Buckhout, W. A., State College, Centre Co., Pa. (20). 1881.

Burnham, S. W., 3573 Vincennes Ave., Chicago, Ill. (25). 1877.
Burr, Prof. William H., Troy, N. Y. (31). 1883.
Burrill, Prof. T. J., Illinois Industrial Univ., Champaign, Ill. (29). 1882.

Caldwell, Prof. Geo. C., Cornell University, Ithaca, N. Y. (23). 1875.
Call, Prof. R. Ellsworth, 619 10th St., W., Des Moines, Iowa (29). 1882.
Canby, William M., 1101 Delaware Avenue, Wilmington, Del. (17). 1878.
Carhart, Prof. Henry S., Northwestern Univ., Evanston, Ill. (29). 1881.
Carmichael, Prof. Henry, Bowdoin College, Brunswick, Me. (21). 1875.
Carpenter, Lieut. W. L., U. S. A., Dunkirk, N. Y. (24). 1877.
Carpmael, Charles, Director of Magnetic Observatory, Toronto, Can. (31). 1883.
Carr, Lucien, Peabody Mus. Arch. and Ethn., Cambridge, Mass. (25). 1877.
Case, Col. Theo. S., Ed. Western Review of Science, Kansas City, Mo. (27). 1883.
Chamberlin, T. C., Washington, D. C. (21). 1877.
Chandler, Prof. C. F., School of Mines, Columbia Coll., 50th St. cor. 4th Ave., New York, N. Y. (19). 1875.
Chandler, Prof. Charles Henry, Ripon, Wis. (28). 1883.
Chandler, Seth C., jr., Harvard Observatory, Cambridge, Mass. (29). 1882.
Chandler, Prof. W. H., The Lehigh Univ., Bethlehem, Pa. (19). 1874.
Chanute, O., Kansas City, Mo. (17). 1877.
Chase, Prof. Pliny E., Haverford College P. O., Pa. (18). 1884.
Chester, Prof. Albert H., Hamilton College, Clinton, N. Y. (29). 1882.
Chickering, Prof. J. W., jr., Deaf Mute College, Washington, D. C. (22). 1877.
Chittenden, Russell H., Ph. D., New Haven, Conn. (29). 1882.
Clapp, Miss Cornelia M., Mt. Holyoke Seminary, South Hadley, Mass. (31). 1883.
Clark, Alvan G., Cambridgeport, Mass. (28). 1880.
Clark, Prof. John E., Mathematics, Yale College, New Haven, Conn. (17). 1875.
Clarke, Miss Cora H., Jamaica Plain, Mass. (29). 1884.
Clarke, Prof. F. W., U. S. Geological Survey, Washington, D. C. (18). 1874.
Claypole, Prof. Edw. W., B. A., Buchtel Coll., Akron, Ohio. (30). 1882.
Coffin, Prof. John H. C., U. S. Navy, Washington, D. C. (1). 1874.
Coffin, Prof. Selden J., Ph.D. Lafayette College, Easton, Pa. (22). 1874.
Collett, Prof. John, Chief Indiana Bureau of Statistics of Geology, Indianapolis, Ind. (17). 1874.
Colvin, Verplanck, Supt. N. Y. State Adirondack Survey, Albany, N. Y. (28). 1880.
Comstock, J. Henry, Cornell Univ., Ithaca, N. Y. (28). 1882.
Comstock, Milton L., Prof. Math., Knox Coll., Galesburg, Ill. (21). 1874.
Cook, Prof. A. J., Agricultural College, Lansing, Mich. (24). 1880.
Cook, Prof. George H., New Brunswick, N. J. (4). 1875.
Cooley, Prof. Le Roy C., Vassar College, Poughkeepsie, N. Y. (19). 1880.

Cope, Prof. Edward D., 2100 Pine St., Philadelphia, Pa. (17). 1875.
Coulter, Prof. John M., Wabash College, Crawfordsville, Ind. (32). 1884.
Cox, Prof. Edward T., New Harmony, Ind. (19). 1874. [1881.
Cox, Hon. Jacob D., Gilman Ave., Mt. Auburn, Cincinnati, Ohio (30).
Coxe, Eckley B., Drifton, Luzerne Co., Pa. (23). 1879.
Crandall, Prof. A. R., Lexington, Ky. (29). 1883.
Crocker, Susan E., M. D., Lawrence, Mass. (21). 1874.
Crosby, Wm. O., Mass. Inst. Technology, Boston, Mass. (29). 1881.
Cross, Prof. Chas. R., Mass. Inst. Technology, Boston, Mass. (29). 1880.
Cummings, Rev. Joseph, D. D., Pres. Northwestern Univ., Evanston, Ill. (13). 1874.
Cutting, Hiram A., M. D., State Geologist, Lunenburgh, Vt. (17). 1874.

Dabney, Chas. W., jr., Ph. D., Agric. Experiment Station, Raleigh, N. C. (30). 1882.
Dall, Mrs. Caroline H., 1667 31st St., Washington, D. C. (18). 1874.
Dall, Wm. H., Smithsonian Institution, Washington, D. C. (18). 1874.
Dana, Edward Salisbury, New Haven, Conn. (23). 1875.
Dana, Prof. James D., New Haven, Conn. (1). 1875.
Danforth, Edward, Dep't of Public Instruction, Elmira, N. Y. (11). 1874.
Davenport, B. F., M. D., 751 Tremont St., Boston, Mass. (29). 1883.
Davidson, Prof. Geo., Asst. Coast and Geodetic Survey, San Francisco, Cal. (29). 1881.
Dawson, Dr. J. Wm., Principal McGill Coll., Montreal, Canada (10). 1875.
Day, F. H., M. D., Wauwatosa, Wis. (20). 1874.
Dean, George W., P. O. Box 92, Fall River, Mass. (15). 1874.
Diller, J. Silas, U. S. Geol. Survey, Washington, D. C. (29). 1884.
Dimmock, George, Cambridge, Mass. (22). 1874.
Dinwiddie, Robert, 117 W. 43d St., New York, N. Y. (1). 1874.
Dodge, Charles R., Washington, D. C. (22). 1874.
Dodge, J. Richards, Washington, D. C. (31). 1884.
Dodge, Prof. James A., Univ. of Minnesota, Minneapolis, Minn. (29). 1884.
Dolbear, A. Emerson, College Hill, Mass. (20). 1880.
Dorsey, Rev. J. Owen, Bureau of Ethnology, Washington, D. C. (31). 1883.
Dow, Capt. John M., 69 Seventh Ave., New York, N. Y. (31). 1884.
Draper, Dan'l, Ph.D., Director N. Y. Meteorological Observatory, Central Park, 64th St., Fifth Avenue, New York, N. Y. (29). 1881.
Drown, Prof. Thos. M., Mass. Inst. Technology, Boston, Mass. (29). 1881.
Du Bois, Prof. Aug. J., New Haven, Conn. (30). 1882.
Dudley, Charles B., Altoona, Pa. (23). 1882.
Dudley, P. H., 66½ Pine St., New York, N. Y. (29). 1884.
Dudley, Wm. L., Miami Med. College, Cincinnati, Ohio (28). 1881.
Dudley, Prof. Wm. R., Ithaca, N. Y. (29). 1883.
Dunnington, Prof. F. P., University of Virginia, Va. (26). 1880.
Dwight, Prof. Wm. B., Vassar College, Poughkeepsie, N. Y. (30). 1882.
Dwyer, John, M. D., Hartford, Conn. (23). 1874.

Eads, Jas. B., 34 Nassau St., New York, N. Y. (27). 1879.
Eastman, Prof. J. R., U. S. Naval Observatory, Washington, D. C. (26). 1879.
Eaton, Prof. D. G., Experiment Mills, Monroe Co., Pa. (19). 1874.
Eaton, Hon. John, U. S. Commissioner of Education, Washington, D. C. (25). 1883.
Eddy, Prof. H. T., University of Cincinnati, Cincinnati, O. (24). 1875.
Edison, Thos. A., Menlo Park, N. J. (27). 1878.
Edmands, J. Rayner, Observatory, Cambridge, Mass. (29). 1880.
Egleston, Prof. Thos., School of Mines, Columbia College, New York, N. Y. (27). 1879.
Eimbeck, Wm., U. S. C. S., Washington, D. C. (17). 1874.
Elliott, Arthur H., School of Mines, Columbia College, New York, N. Y. (23). 1880.
Elliott, Ezekiel B., Government Actuary, Treasury Dept., Washington, D. C. (10). 1874.
Emerson, Prof. Benjamin K., Amherst, Mass. (19). 1877.
Emerson, Prof. C. F., Dartmouth College, Hanover, N. H. (22). 1874.
Emerton, James H., Salem, Mass. (18). 1875.
Emery, Albert H., Stamford, Conn. (29). 1884.
Emmons, S. F., U. S. Geol. Survey, Washington, D. C. (26). 1879.
Engelmann, Geo. J., M.D., 3003 Locust St., St. Louis, Mo. (25). 1875.
Ernst, Carl W., Daily Advertiser, Boston, Mass. (23). 1874.
Evans, Asher B., 500 Pine St., Lockport, N. Y. (19). 1874.

Fairbanks, Henry, Ph. D., St. Johnsbury, Vt. (14). 1874.
Fairchild, H. L., Sec'y N. Y. Acad. Sciences, 102 E. 52d St., New York, N. Y. (28). 1883.
Farlow, Dr. W. G., 29 Holyoke House, Boston, Mass. (20). 1875.
Farmer, Moses G., Torpedo Station, Newport, R. I. (9). 1875.
Ferguson, Maj. Thos. B., Ass't U. S. Fish Commissioner, Washington, D. C. (28). 1881.
Fernald, Prof. Chas. H., State Agric. College, Orono, Me. (22). 1881.
Fernald, Prof. M. C., State Agricultural College, Orono, Me. (22). 1883.
Ferrel, Wm., Army Signal Office, Washington, D. C. (11). 1875.
Ficklin, Prof. Joseph, Univ. of Missouri, Columbia, Mo. (20). 1878.
Fitch, Edward H., Jefferson, Ashtabula Co., Ohio (11). 1874.
Fletcher, Miss Alice C., care Peabody Museum, Cambridge, Mass. (29). 1883.
Fletcher, James, Library of Parliament, Ottawa, Can. (31). 1883.
Fletcher, Dr. Robert, Surgeon General's Office, U. S. A., Washington, D. C. (29). 1881.
Flint, James M., Surgeon U. S. N., 42 Dartmouth St., Boston, Mass. (28). 1882.
Foote, Dr. A. E., 1223 Belmont Avenue, Philadelphia, Pa. (21). 1874.
Forbes, Prof. S. A., Champaign, Ill. (27). 1879.
Foye, Prof. J. C., Lawrence Univ., Appleton, Wis. (29). 1884.
Frazer, Dr. Persifor, 917 Clinton St., Philadelphia, Pa. (24). 1879.

Frazier, Prof. B. W., The Lehigh University, Bethlehem, Pa. (24). 1882.
Freeman, H. C., Alto Pass, Union Co., Ill. (17). 1876.
Freeman, Spencer H., Adelbert College, Cleveland, Ohio (29). 1883.
French, Prof. Thomas, jr., No. 2 Chester Block, Auburn St., Cincinnati, Ohio (30). 1883.
Frisby, Prof. Edgar, U. S. N. Observ., Washington, D. C. (28). 1880.
Fuller, Andrew S., Ridgewood, Bergen Co., N. J. (24). 1882.

Gage, Simon Henry, Ithaca, N. Y. (28). 1881.
Gardiner, Rev. Frederic, D. D., Middletown, Conn. (23). 1874.
Gardiner, James T., Director N. Y. State Survey, Albany, N. Y. (25). 1879.
Garland, Rev. Dr. L. C., Chancellor Vanderbilt Univ., Nashville, Tenn. (25). 1877.
Garman, S., care Museum Comp. Zoology, Cambridge, Mass. (20). 1874.
Gatschet, Albert S., Bureau of Ethnology, Washington, D. C. (30). 1882.
Genth, Dr. F. A., Univ. of Pennsylvania, Philadelphia, Pa. (24). 1875.
Gilbert, G. K., Box 591, Washington, D. C. (18). 1874.
Gillman, Henry, Detroit, Mich. (24). 1875.
Gilman, Daniel C., Pres. Johns Hopkins Univ., Baltimore, Md. (10). 1875.
Goessman, Prof. C. A., Mass. Agric. Coll., Amherst, Mass. (18). 1875.
Goldschmidt, S. A., Ph. D., 55 Broadway, New York, N. Y. (24). 1880.
Gooch, Frank A., U. S. Geological Survey, Washington, D. C. (25). 1880.
Goodfellow, Edward, Ass't U. S. Coast and Geodetic Survey, Washington, D. C. (24). 1879.
Grant, Mrs. Mary J., Brookfield, Conn. (23). 1874.
Gratacap, L. P., Ph.B., 77th St. and 8th Ave., New York, N. Y. (27). 1884.
Gray, Prof. Asa, Botanic Gardens, Cambridge, Mass. (1). 1875.
Gray, Elisha, Ph. D., Highland Park, Ill. (32). 1883.
Green, Traill, M. D., Easton, Pa. (1). 1874.
Grimes, J. Stanley, 81 Randolph St., Chicago, Ill. (17). 1874.
Grinnan, A. G., Rapidan Station, Va. Mid. R. R., Va. (7). 1875.
Gulley, Prof. Frank A., Agricultural College, Oktibbeha Co., Miss. (30). 1883.

Hagen, Dr. Hermann A., Mus. Comp. Zool., Cambridge, Mass. (17). 1875.
Hague, Arnold, 10 West 29th St., New York, N. Y. (26). 1879.
Hale, Horatio, Clinton, Ontario, Can. (30). 1882.
Hall, Prof. Asaph, U. S. Naval Observ., Washington, D. C. (25). 1877.
Hall, Prof. C. W., Univ. of Minnesota, Minneapolis, Minn. (28). 1883.
Hall, Prof. Edwin H., 5 Avon St., Cambridge, Mass. (29). 1881.
Hall, Prof. James, Albany, N. Y. (1). 1875.
Hall, Prof. Lyman B., Haverford College, Pa. (31). 1884.
Halsted, Byron D., Agricultural College, Ames, Iowa (29). 1883.
Hamlin, Dr. A. C., Bangor, Me. (10). 1874.
HANAMAN, C. E., Troy, N. Y. (19). 1883.
Hardy, Prof. A. S., Dartmouth College, Hanover, N. H. (28). 1883.
Harger, Oscar, Yale College Museum, New Haven, Conn. (25). 1879.
HARKNESS, PROF. WM., U. S. N. Observ., Washington, D. C. (26). 1878.

Harrington, Prof. Mark W., Ann Arbor, Mich. (22). 1875.
Harrison, Dr. B. F., Wallingford, Conn. (11). 1874.
Hasbrouck, Prof. I. E., 281 Ryerson St., Brooklyn, N. Y. (23). 1874.
Hastings, C. S., Sheffield Sci. School of Yale College, New Haven, Conn. (25). 1878.
Hayden, Dr. F. V., 1910 Arch St., Philadelphia, Pa. (29). 1881.
Haynes, Henry W., 239 Beacon St., Boston, Mass. (28). 1884.
Hazen, Wm. B., Brig. and B'vt. Maj. Gen'l, Chief Signal Officer, U. S. A., Washington, D. C. (30). 1882.
Hedrick, B. S., Exam'r U. S. Patent Office, Washington, D. C. (19). 1874.
Henshaw, Henry W., Care Major J. W. Powell, 910 M St., Washington, D. C. (24). 1877.
Herrick, Clarence L., Granville, Ohio (31). 1884.
Hervey, Rev. A. B., Taunton, Mass. (22). 1879.
Hilgard, Prof. E. W., Univ. of California, Berkeley, Cal. (11). 1874.
Hilgard, Prof. J. E., Washington, D. C. (4). 1874.
Hill, Franklin C., P. O. Box 338, Princeton, N. J. (29). 1881.
Hill, George W., Nautical Almanac Office, Navy Department, Washington, D. C. (23). 1874.
Hill, Rev. Dr. Thomas, 738 Congress St., Portland, Me. (3). 1875.
Himes, Prof. Charles F., Carlisle, Pa. (29). 1882.
Hinrichs, Prof. Gustavus, State University, Iowa City, Iowa (17). 1874.
Hitchcock, Prof. Charles H., Hanover, N. H. (11). 1874.
Hitchcock, Romyn, Washington, D. C. (29). 1881.
Hoadley, J. C., 28 State St., Room 28, Boston, Mass. (29). 1884.
Hodges, N. D. C., Salem, Mass. (29). 1882.
Hoffman, Dr. Fred., 183 Broadway, New York, N. Y. (28). 1881.
Holden, Prof. E. S., Director Washburn Observatory, Univ. of Wisconsin, Madison, Wis. (23). 1875.
Holman, Silas W., Mass. Inst. of Technology, Boston, Mass. (31). 1883.
Holmes, Dr. Oliver Wendell, 296 Beacon St., Boston, Mass. (29). 1881.
Holmes, Wm. H., Smithsonian Institution, Washington, D. C. (30). 1883.
Horsford, Prof. E. N., Cambridge, Mass. (1). 1876.
Hosea, Lewis M., Johnston Building, Cincinnati, Ohio (30). 1883.
Hotchkiss, Jed., Staunton, Va. (31). 1883.
Hough, G. W., Director Dearborn Observatory, Chicago, Ill. (15). 1874.
Hovey, Rev. Horace C., 1519 Park Ave., Minneapolis, Minn. (29). 1883.
Hoy, Philo R., M. D., Racine, Wis. (17). 1875.
Hunt, George, Providence, R. I. (9). 1874.
Hunt, Dr. T. Sterry, Montreal, Canada (1). 1874.
Huntington, Prof. J. H., Boston, Mass. (19). 1874.
Hyatt, Prof. Alpheus, Natural History Society, Boston, Mass. (18). 1875.
Hyatt, James, Stanfordville, Duchess Co., N. Y. (10). 1874.
Hyde, Prof. E. W., Walnut Hills, Cincinnati, Ohio (25). 1881.

Iddings, Joseph P., U. S. Geol. Survey, Washington, D. C. (31). 1884.
Irving, Roland D., Wis. State Geol. Survey, Madison, Wis. (26). 1879.

James, Jos. F., 108 Broadway, Cincinnati, Ohio (30). 1882.
Jayne, Horace F., 1826 Chestnut St., Philadelphia, Pa. (29). 1884.
Jeffries, B. Joy, M. D., 15 Chestnut St., Boston, Mass. (29). 1881.
Jenks, Elisha T., Middleborough, Mass. (22). 1874.
Jenks, Prof. J. W. P., Middleborough, Mass. (2). 1874.
Jewell, Theo. F., Lt. Comdr. U. S. N., Torpedo Station, Newport, R. I. (25). 1882.
Jillson, Dr. B. C., Illinois Industrial Univ., Champaign, Ill. (14). 1881.
Johnson, Prof. S. W., 54 Trumbull St., New Haven, Conn. (22). 1874.
Johnson, Prof. W. W., Naval Acad., Annapolis, Md. (29). 1881.
Joy, Prof. Charles A., care F. Hoffmann, Stockbridge, Mass. (8). 1879.
Julien, A. A., School of Mines, Columbia Coll., New York, N. Y. (24). 1875.

Kedzie, Prof. Robert C., Lansing, Mich. (29). 1881.
Kellicott, David S., Buffalo, N. Y. (31). 1883.
Kendall, Prof. E. Otis, 3826 Locust St., Philadelphia, Pa. (29). 1882.
Kent, William, 26 Highland Ave., Jersey City, N. J. (26). 1881.
Kerr, Prof. W. C., Raleigh, N. C. (10). 1874.
Kershner, Prof. Jefferson E., Lancaster City, Pa. (29). 1883.
Kinnicutt, Leonard P., 5 Chestnut St., Worcester, Mass. (28). 1883.
Kirkwood, Prof. Daniel, Bloomington, Ind. (7). 1874.
Kunz, G. F., with Tiffany & Co., New York, N. Y. (29). 1883.

Lambert, Rev. Thomas R., D.D., Charlestown, Mass. (18). 1874.
Landreth, Prof. Olin H., Vanderbilt Univ., Nashville, Tenn. (28). 1883.
Langdon, Dr. F. W., 65 West 7th St., Cincinnati, Ohio (30). 1882.
Langley, Prof. J. W., Univ. of Michigan, Ann Arbor, Mich. (23). 1875.
Langley, Prof. S. P., Director of Observatory, Allegheny, Pa. (18). 1874.
Lanza, Prof. Gaetano, Mass. Inst. of Technology, Boston, Mass. (29). 1882.
Larkin, Edgar L., New Windsor, Mercer Co., Ill. (28). 1883.
Lattimore, Prof. S. A., Univ. of Rochester, Rochester, N. Y. (15). 1874.
Lawrence, George N., 45 E. 21st St., New York, N. Y. (7). 1877.
Lazenby, Prof. Wm. R., Ithaca, N. Y. (30). 1882.
Lea, Dr. Isaac, 1622 Locust St., Philadelphia, Pa. (1). 1875.
LeConte, Prof. Joseph, Univ. of Cal., Berkeley, Cal. (29). 1881.
Ledoux, Albert R., Ph. D., 10 Cedar St., New York, N. Y. (26). 1881.
Leeds, Prof. Albert R., Stevens Institute, Hoboken, N. J. (23). 1874.
Leonard, N. R., State Univ., Iowa City, Iowa (21). 1875.
Lesley, Prof. J. Peter, State Geol. of Pa., 1008 Clinton St., Philadelphia, Pa. (2). 1874.
Lewis, Prof. H. Carvill, High St., Germantown, Pa. (26). 1880.
LILLY, GEN. WM., Mauch Chunk, Carbon Co., Pa. (28). 1882. Patron.

Lintner, J. A., N. Y. State Entomologist, Room 27, Capitol, Albany, N. Y. (22). 1874.
Litton, Abram, 2220 Eugenia St., St. Louis, Mo. (28). 1879.
Lockwood, Rev. Samuel, Freehold, Monmouth Co., N. J. (18). 1875.
Loomis, Prof. Elias, New Haven, Conn. (1). 1874.
Lord, Prof. Nat. W., State Univ., Columbus, Ohio (29). 1881.
Loudon, Prof. James, Toronto, Can. (25). 1881.
Loughridge, Prof. R. H., Ass't State Geol., Frankfort, Ky. (21). 1874.
Love, Edward G., School of Mines, Columbia College, New York, N. Y. (24). 1882.
Lovering, Prof. Joseph, Harvard University, Cambridge, Mass. (2). 1875.
Lull, Edward P., Captain U. S. N., care Navy Dep't, Washington, D. C. (28). 1880.
Lupton, Prof. N. T., Vanderbilt University, Nashville, Tenn. (17). 1874.
Lyle, David Alexander, Capt. of Ordnance U. S. A., National Armory, Springfield, Mass. (28). 1880.
Lyman, Prof. Chester S., 88 Trumbull St., New Haven, Conn. (4). 1875.
Lyman, Hon. Theodore, Brookline, Mass. (23). 1875.
Lyon, Dr. Henry, 34 Monument Sq., Charlestown, Mass. (18). 1874.

Mabery, Prof. C. F., Case School of Applied Science, Cleveland, Ohio (29). 1881.
Macfarlane, James, Towanda, Pa. (29). 1882.
Mackintosh, James B., School of Mines, Columbia College, New York, N. Y. (27). 1883.
Macloskie, Prof. George, College of New Jersey, Princeton, N. J. (25). 1882.
Mallery, Brevet Lieut. Col. Garrick, U. S. Army, Bureau of Ethnology, Washington, D. C. (26). 1879.
MANN, B. PICKMAN, U. S. Dep't of Agric., Washington, D. C. (22). 1874.
Marcy, Oliver, LL.D., Evanston, Ill. (10). 1874.
Markoe, Geo. F. H., 61 Warren St., Roxbury, Mass. (29). 1881.
MARSH, PROF. O. C., Yale College, New Haven, Conn. (15). 1874.
Martin, Prof. Daniel S., 236 West 4th St., New York, N. Y. (23). 1879.
Martin, Prof. H. Newell, Johns Hopkins Univ., Baltimore, Md. (27). 1880.
Martin, Prof. Wm. J., Davidson College, N. C. (31). 1884.
Mason, Prof. Otis T., Columbian University, Washington, D. C. (25). 1877.
Mayer, Prof. A. M., So. Orange, N. J. (19). 1874.
McCauley, Capt. C. A. H., Ass't Q. M., U. S. A., 321 Michigan Ave., Chicago, Ill. (29). 1881.
McGee, W. J., U. S. Geol. Survey, Washington, D. C. (27). 1882.
McMurtrie, William, Ill. Indust. Univ., Champaign, Ill. (22). 1874.
McNair, Lt. Commander Antoine R., U. S. N., Box 1071, Saratoga Springs, N. Y. (28). 1882.
McRae, Hamilton S., Supt. of Schools, Marion, Ind. (20). 1874.
Meehan, Thomas, Germantown, Pa. (17). 1875.
Mees, Carl Leo, Columbus, Ohio (24). 1876.

Mendenhall, Prof. T. C., U. S. Signal Service, Washington, D. C. (20). 1874.
Merriman, C. C., Rochester, N. Y. (29). 1880.
Michelson, A. A., Master U. S. N., 7 Rockwell St., Cleveland, Ohio (26). 1879. [1880.
Minot, Dr. Charles Sedgwick, 25 Mt. Vernon St., Boston, Mass. (28).
Minot, Francis, M. D., 65 Marlborough St., Boston, Mass. (29). 1884.
Mitchell, Miss Maria, Vassar College, Poughkeepsie, N. Y. (4). 1874.
Mixter, Prof. Wm. G., New Haven, Conn. (30). 1882.
Moore, Prof. J. W., M. D., Lafayette College, Easton, Pa. (22). 1874.
Morley, Prof. Edward W., 749 Republic St., Cleveland, Ohio (18). 1876.
Morris, Rev. John G., Baltimore, Md. (12). 1874.
Morse, Prof. E. S., Salem, Mass. (18). 1874.
Morton, H., Stevens Institute Technology, Hoboken, N. J. (18). 1875.
Moses, Prof. Thos. F., Urbana Univ., Urbana, Ohio (25). 1883.
Munroe, Prof. C. E., U. S. Naval Academy, Annapolis, Md. (22). 1874.
Murtfeldt, Miss Mary E., Kirkwood, Mo. (27). 1881.

Nason, Prof. H. B., Rensselaer Polytechnic Inst., Troy, N. Y. (13). 1874.
Neale, Arthur T., Ph. D., New Brunswick, N. J. (29). 1882.
Nelson, Prof. A. B., Centre College, Danville, Ky. (30). 1882.
Nelson, Prof. Edward T., Delaware, Delaware Co., Ohio (24). 1877.
Newberry, Prof. J. S., Columbia College, New York, N. Y. (5). 1875.
Newcomb, Prof. S., Navy Dep't, Washington, D. C. (13). 1874.
Newton, Hubert A., New Haven, Conn. (6). 1874.
Nichols, E. L., Ph. D., Univ. of Kansas, Lawrence, Kansas (28). 1881.
Nichols, Prof. W. R., Mass. Inst. Technology, Boston, Mass. (18). 1875.
Niles, Prof. W. H., Cambridge, Mass. (16). 1874.
Nipher, Prof. F. E., Washington University, St. Louis, Mo. (24). 1876.
Norton, Lewis M., Ph. D., Mass. Inst. of Technology, Boston, Mass. (29). 1884.

Oliver, Prof. James E., Cornell University, Ithaca, N. Y. (7). 1875.
Oliver, Miss Mary E., Cascadilla Hotel, Ithaca, N. Y. (20). 1874.
Ordway, Prof. John M., Tulane Univ., New Orleans, La. (9). 1875.
Orton, Prof. Edward, President Ohio Agricultural and Mechanical College, Columbus, Ohio (19). 1875.
Osborn, Henry F., S. D., Garrisons, N. Y. (29). 1883.
Osborn, Herbert, Ames, Iowa (32). 1884.
Osborne, J. W., 212 Delaware Ave. N. E., Washington, D. C. (22). 1874.
Osler, Prof. William, McGill College, Montreal, Canada (28). 1881.
Owen, Dr. Richard, New Harmony, Ind. (20). 1874.

Packard, Dr. A. S., 115 Angell St., Providence, R. I. (16). 1875.
Paine, Cyrus F., 242 East Ave., Rochester, N. Y. (12). 1874.
Paine, Nathaniel, Worcester, Mass. (18). 1874.
Palfray, Hon. Charles W., Salem, Mass. (21). 1874.

Parke, John G., Lt. Col. Corps of Eng'rs, Bv't Maj. Gen. U. S. A., Office of Chief of Engineers, Washington, D. C. (29). 1881.
Parkhurst, H. M., Law Stenographer, 25 Chambers St., New York, N. Y. (23). 1874.
Payne, Prof. Wm. W., Carleton College Observ., Northfield, Minn. (30). 1883.
Peckham, S. F., Providence, R. I. (18). 1875.
Pedrick, Wm. R., Lawrence, Mass. (22). 1875.
Peet, Rev. Stephen D., Clinton, Wis. (24). 1881.
Peirce, Prof. James M., Cambridge, Mass. (28). 1881.
Penhallow, Prof. D. P., McGill College, Montreal, Can. (30). 1882.
Perkins, Prof. George H., Burlington, Vt. (17). 1882.
Perkins, Maurice, Schenectady, N. Y. (15). 1875.
Peter, Dr. Robert, Ky. Geol. Survey, Lexington, Ky. (29). 1881.
Pettee, Prof. William H., Ann Arbor, Mich. (24). 1875.
Phillips, A. W., New Haven, Conn. (24). 1879.
Phippen, Geo. D., Salem, Mass. (18). 1874.
Pickering, Prof. E. C., Director of Observ., Cambridge, Mass. (18). 1875.
Pickering, William H., Inst. Technology, Boston, Mass. (29). 1883.
Pike, Dr. William H., University College, Toronto, Can. (29). 1881.
Pilling, James C., Box 591, Washington, D. C. (28). 1882.
Platt, Franklin, Ass't Geologist, 2nd Geol. Survey of Pa., 615 Walnut St., Philadelphia, Pa. (27). 1882.
Pohlman, Dr. Julius, Buffalo, N. Y. (32). 1884.
Potter, Prof. William B., Washington Univ., St. Louis, Mo. (25). 1879.
Powell, Major J. W., U. S. Geologist, 910 M St., Washington, D. C. (23). 1875.
Prentiss, D. Webster, M. D., 1224 9th St., N. W., Washington, D. C. (29). 1882.
Prescott, Prof. Albert B., Ann Arbor, Mich. (23). 1875.
Pritchett, Henry S., Observatory, Washington Univ., St. Louis, Mo. (29). 1881.
Pulsifer, Wm. H., St. Louis, Mo. (26). 1879.
Pumpelly, Prof. Raphael, U. S. Geol. Survey, Newport, R. I. (17). 1875.
Putnam, F. W., Curator Peabody Museum American Archæology and Ethnology, Cambridge, Mass. Address as Permanent Secretary A. A. A. S., Salem, Mass. (10). 1874.
Pynchon, Rev. T. R., Pres't Trinity Coll., Hartford, Conn. (23). 1875.

Quincy, Edmund, 88 Clinton St., Boston, Mass. (11). 1874.

Rauch, Dr. John H., Chicago, Ill. (11). 1875.
Raymond, Rossiter W., 17 Burling Slip, New York, N. Y. (15). 1875.
Redfield, J. H., care A. Whitney & Sons, Philadelphia, Pa. (1). 1874.
Reed, E. Baynes, London, Ontario, Can. (27). 1882.
Rees, Prof. John K., Columbia College, New York, N. Y. (26). 1878.
Remsen, Prof. Ira, Johns Hopkins University, Baltimore, Md. (22). 1875.

Rice, John M., U. S. Naval Academy, Annapolis, Md. (25). 1881.
Rice, Prof. Wm. North, Wesleyan Univ., Middletown, Conn. (18). 1874.
Richards, Prof. Robert H., Mass. Inst. Tech., Boston, Mass. (22). 1875.
Richards, Mrs. Robert H., Mass. Inst. of Tech., Boston, Mass. (23). 1878.
Richardson, Clifford, Dept. of Agric., Washington, D. C. (30). 1884.
Ricketts, Pierre de Peyster, Ph. D., 10 Cedar St., New York, N. Y. (26). 1880.
RILEY, PROF. C. V., U. S. Entomologist, 1700 13th St. N. W., Washington, D. C. (17). 1874.
Ritchie, E. S., 87 Franklin St., Boston, Mass. (10). 1877.
Robinson, Prof. S. W., Univ. of Ohio, Columbus, Ohio (30). 1883.
Rockwell, Gen. Alfred P., Office Great Falls Manufacturing Co., Boston, Mass. (10). 1882.
Rockwell, Chas. H., Box 293, Tarrytown, N. Y. (28). 1883.
Rockwood, Prof. Charles G., jr., College of New Jersey, Princeton, N. J. (20). 1874.
Rogers, Fairman, 202 West Rittenhouse Square, Philadelphia, Pa. (11). 1874.
Rogers, W. A., Ass't Prof. Harvard College Observ., Cambridge, Mass. (15). 1875.
Rominger, Dr. Carl, Ann Arbor, Mich. (21). 1879.
Rood, Prof. O. N., Columbia College, New York, N. Y. (14). 1875.
Roosevelt, Clinton, 11 Wall St., New York, N. Y. (11). 1874.
Rosenspitz, Dr. Alexander, Rabbi, Lock Box 688, Jacksonville, Fla. (26). 1883.
Ross, Waldo O., 189 Devonshire St., Boston, Mass. (29). 1882.
Rowland, Prof. Henry A., Baltimore, Md. (29). 1880.
Runkle, Prof. J. D., Mass. Inst. of Tech., Boston, Mass. (2). 1875.
Russell, I. C., U. S. Geological Survey, Washington, D. C. (25). 1882.
Rutherford, Lewis M., 175 Second Ave., New York, N. Y. (13). 1875.

Sadtler, Prof. Saml. P., Univ. of Pa., Philadelphia, Pa. (22). 1875.
Safford, Dr. James M., Nashville, Tenn. (6). 1875.
Sampson, Com'd W. T., U.S.N., Torpedo Station, Newport, R. I. (25). 1881.
Saunders, William, London, Ontario, Canada (17). 1874.
Schaack, Prof. J. Stillwell, Princeton, New Jersey (4). 1882.
Schott, Charles A., U. S. Coast and Geodetic Survey Office, Washington, D. C. (8). 1874.
Schweitzer, Prof. Paul, State Univ. of Mo., Columbia, Mo. (24). 1877.
SCUDDER, SAMUEL H., Cambridge, Mass. (13). 1874.
Seaman, W. H., Microscopist, 1424 11th St. N. W., Washington, D. C. (23). 1874.
Seiler, Carl, M. D., Philadelphia, Pa. (29). 1882.
Sestini, Rev. B., Woodstock, Md. (29). 1882.
Sharples, Stephen P., 13 Broad St., Boston, Mass. (29). 1884.
Sheafer, P. W., Pottsville, Pa. (4). 1879.

Sias, Solomon, M. D., Schoharie, Schoharie Co., N. Y. (10). 1874.
Sill, Hon. Elisha N., Cuyahoga Falls, Ohio (6). 1874.
Silliman, Prof. Justus M., Lafayette College, Easton, Pa. (19). 1874.
Skinner, Joseph J., Ithaca, N. Y. (23). 1880.
Smiley, Charles W., 1443 Mass. Ave., Washington, D. C. (28). 1883.
Smith, Edwin, Ass't U. S. Coast and Geodetic Survey, Washington, D. C. (30). 1882.
Smith, Mrs. Erminnie A., 203 Pacific Ave., Jersey City, N. J. (25). 1880.
Smith, Prof. Eug. A., University of Alabama, Tuscaloosa, Ala. (20). 1877.
Smith, Prof. Francis H., Univ. of Virginia, Charlottesville, Va. (26). 1880.
SMITH, QUINTIUS C., M. D., No. 704 Congress Ave., Austin, Texas (26). 1881.
Smith, Prof. S. I., Yale College, New Haven, Conn. (18). 1875.
Smock, Prof. John Conover, New York State Museum, Albany, N. Y. (23). 1879.
Snow, Prof. F. H., Lawrence, Kan. (29). 1881.
Snyder, Prof. Monroe B., High School Observatory, Philadelphia, Pa. (24). 1882.
Spencer, Prof. J. William, Univ. of Missouri, Columbia, Mo. (28). 1882.
Spencer, John W., Geol., Paxton, Sullivan Co., Ind. (20). 1874.
Springer, Dr. Alfred, Box 579, Cincinnati, Ohio (24). 1880.
Stallo, J. B., Masonic Temple, Cincinnati, Ohio (30). 1882.
Stanard, Benjamin A., Cleveland, Ohio (6). 1874.
Stearns, R. E. C., care Smithsonian Inst., Washington, D. C. (18). 1874.
Steiner, Dr. Lewis H., Enoch Pratt Free Library, Baltimore, Md. (7). 1874.
STEPHENS, W. HUDSON, Lowville, N. Y. (18). 1874.
Sternberg, George M., Surgeon U. S. A., Johns Hopkins Univ., Baltimore, Md. (24). 1880.
Stevens, W. LeConte, 170 Joralemon St., Brooklyn, N. Y. (29). 1882.
Stockwell, John N., 1008 Case Avenue, Cleveland, Ohio (18). 1875.
Stone, George H., Colorado Springs, Col. (29). 1882.
Stone, Mrs. Leander, 3352 Indiana Avenue, Chicago, Ill. (22). 1874.
Stone, Ormond, Director Leander McCormick Observatory, Univ. of Va., Va. (24). 1876.
Storrs, Henry E., Jacksonville, Ill. (20). 1874.
Story, Wm. E., Johns Hopkins Univ., Baltimore, Md. (29). 1881.
Stuart, Prof. A. P. S., Lincoln, Nebraska (21). 1874.
Sturtevant, E. Lewis, M. D., Geneva, N. Y. (29). 1882.
Sutton, Dr. George, Aurora, Dearborn Co., Ind. (20). 1881.
Swift, Lewis, Ph. D., Rochester, N. Y. (29). 1882.

Tainter, Sumner, 1221 Connecticut Ave., Washington, D. C. (29). 1881.
Tappan, Prof. Eli T., Kenyon College, Gambier, Ohio (20). 1874.
Taylor, Wm. B., Smithsonian Institution, Washington, D. C. (29). 1881.
Terry, Prof. N. M., U. S. Naval Academy, Annapolis, Md. (23). 1874.

Thomas, Benj. F., Ph. D., Univ. State of Missouri, Columbia, Mo. (29). 1882.
Thomas, Prof. Cyrus, Carbondale, Ill. (30). 1882.
Thurston, Prof. R. H., Sibley College, Cornell Univ., Ithaca, N. Y. (23). 1875.
Todd, Prof. David P., Director Lawrence Observatory, Amherst College, Amherst, Mass. (27). 1881.
Townshend, Prof. N. S., Ohio State Univ., Columbus, Ohio (17). 1881.
Tracy, Sam'l M., Columbia, Boone Co., Mo. (27). 1881.
Trembley, J. B., M. D., 952 8th St., Oakland, Alameda Co., Cal. (17). 1880.
Trowbridge, Prof. John, Harvard University, Cambridge, Mass. (25). 1876.
Trowbridge, Prof. W. P., New Haven, Conn. (10). 1874.
True, Fred W., U. S. National Museum, Washington, D. C. (28). 1882.
Trumbull, Dr. J. Hammond, Hartford, Conn. (29). 1882.
Tuttle, Prof. Albert H., Columbus, Ohio (17). 1874.

Uhler, Philip R., 218 W. Hoffman St., Baltimore, Md. (19). 1874.
Upham, Warren, Nashua, N. H. (25). 1880.
Upton, Winslow, Brown Univ., Providence, R. I. (29). 1883.

Van der Weyde, P. H., M.D., Box 3619, New York, N. Y. (17). 1874.
Van Dyck, Prof. Francis Cuyler, New Brunswick, N. J. (28). 1882.
Van Vleck, Prof. John M., Middletown, Conn. (23). 1875.
Verrill, Prof. A. E., Yale College, New Haven, Conn. (16). 1875.
Vose, Prof. George L., Mass. Inst. Technology, Boston, Mass. (15). 1875.

Wachsmuth, Charles, 111 Marietta St., Burlington, Iowa (30). 1884.
Wadsworth, Prof. M. Edward, Ph. D., Colby Univ., Waterville, Me. (23). 1874.
Walcott, Charles D., Natl. Museum, Washington, D. C. (25). 1882.
Waldo, Leonard, S. D., New Haven, Conn. (28). 1880.
Walker, J. R., D. D. S., Bay Saint Louis, Hancock Co., Miss. (19). 1874.
Wallace, Wm., Ansonia, Conn. (28). 1882.
WALLER, E., School of Mines, Columbia College, New York, N. Y. (23). 1874.
Walling, H. F., Cambridge, Mass. (16). 1874.
Walmsley, W. H., 1016 Chestnut St., Philadelphia, Pa. (28). 1883.
Ward, Prof. Henry A., Rochester, N. Y. (13). 1875. [1879.
Ward, Lester F., U. S. Geological Survey, Washington, D. C. (26).
Ward, Dr. R. H., 53 Fourth St., Troy, N. Y. (17). 1874.
Warder, Prof. Robert B., Lafayette, Ind. (19). 1881.
WARNER, JAMES D., 199 Baltic St., Brooklyn, N. Y. (18). 1874.
Warren, Cyrus M., Brookline, Mass. (29). 1882.
Warren, Prof. S. Edward, Newton, Mass. (17). 1875.
Watson, Sereno, Botanic Gardens, Cambridge, Mass. (22). 1875.

WATSON, PROF. WM., 107 Marlborough St., Boston, Mass. (12). 1884.
Wead, Prof. Charles K., Univ. of Mich., Ann Arbor, Mich. (23). 1880.
Webb, Prof. J. Burkitt, Cornell University, Ithaca, N. Y. (31). 1883.
Webster, Prof. H. E., Union College, Schenectady, N. Y. (23). 1882.
Webster, Prof. N. B., Principal Webster Inst., Norfolk, Va. (7). 1874.
Wells, Daniel H., Hartford, Conn. (18). 1875.
Westcott, O. S., Maywood, Cook Co., Ill. (21). 1874.
Wheatland, Dr. Henry, President Essex Inst., Salem, Mass. (1). 1874.
Wheeler, Prof. C. Gilbert, 81 Clark St., Chicago, Ill. (18). 1883.
Wheeler, Capt. Geo. M., U. S. E., Lock Box 93, Washington, D. C. (25). 1879.
Wheeler, Orlando B., Ass't U.S. Lake Survey, Detroit, Mich. (24). 1882.
Wheildon, W. W., Box 229, Concord, Mass. (13). 1874.
White, Prof. C. A., Le Droit Park, Washington, D. C. (17). 1875.
White, Prof. I. C., Univ. of W. Va., Morgantown, W. Va. (25). 1882.
Whitfield, R. P., American Museum Natural History, 77th St. & 8th Avenue, New York, N. Y. (18). 1874.
Whiting, Miss Sarah F., Wellesley College, Wellesley, Mass. (31). 1883.
Whitney, Solon F., Watertown, Mass. (20). 1874.
Whittlesey, Col. Charles, 1305 Euclid Ave., Cleveland, Ohio (1). 1875.
Wilber, G. M., Pine Plains, N. Y. (19). 1874.
Wilbur, A. B., Port Jervis, Orange Co., N. Y. (23). 1874.
Wilder, Prof. Burt G., Cornell University, Ithaca, N. Y. (22). 1875.
Wiley, Prof. Harvey W., Dept. of Agric., Washington, D. C. (21). 1874.
Williams, Charles H., M. D., 15 Arlington St., Boston, Mass. (22). 1874.
Williams, Henry Shaler, Cornell Univ., Ithaca, N. Y. (18). 1882.
Williams, Prof. Henry W., 15 Arlington St., Boston, Mass. (11). 1874.
Wilson, Prof. Daniel, President University College, 117 Bloor St., Toronto, Canada (25). 1876.
Winchell, Prof. Alex., Ann Arbor, Mich. (3). 1875.
Winchell, Prof. N. H., Univ. of Minnesota, Minneapolis, Minn. (19). 1874.
Woerd, Chas. V., Am. Watch Co., Waltham, Mass. (29). 1881.
Wood, Prof. De Volson, Hoboken, N. J. (29). 1881.
Woodbury, C. J. H., 31 Milk St., Boston, Mass. (29). 1884.
Woodward, Prof. Calvin M., 1761 Missouri Ave., St. Louis, Mo. (32). 1884.
Wormley, T. G., Univ. of Pennsylvania, Philadelphia, Pa. (20). 1878.
Worthen, A. H., Springfield, Ill. (5). 1874.
Wright, Prof. Albert A., Oberlin College, Oberlin, Ohio (24). 1880.
Wright, Prof. Arthur W., Yale College, New Haven, Conn. (14). 1874.
Wright, Rev. Geo. F., Oberlin College, Oberlin, Ohio (29). 1882.
Würtele, Rev. Louis C., Acton Vale, Province of Quebec, Can. (11). 1875.
Wyckoff, Wm. C., 44 Howard St., New York (20). 1874.
Wylie, Prof. Theoph. A., Indiana Univ., Bloomington, Ind. (20). 1874.

Youmans, Prof. Edward L., New York, N. Y. (6). 1874.

Young, C. A., Prof. of Astronomy, College of New Jersey, Princeton, New Jersey (18). 1874.

Zentmayer, Joseph, 147 So. Fourth St., Philadelphia, Pa. (29). 1882.

[562 FELLOWS.]

TOTAL NUMBER OF MEMBERS OF THE ASSOCIATION, 2079.

DECEASED MEMBERS.

[Information respecting omissions in this list, and the date of birth and of decease of any of the former members, is requested by the Permanent Secretary.]

Abbe, George W., New York, N. Y. (23). Died Sept. 25, 1879.

Abert, J. J., Washington, D. C. (1). Born in 1785. Died January 27, 1863.

Adams, C. B., Amherst, Mass. (1). Born January 11, 1814. Died Jan'y 19, 1853.

Adams, Edwin F., Charlestown, Mass. (18).

Adams, Samuel, Jacksonville, Ill. (18). Born Dec. 19, 1806. Died April 29, 1877.

Agassiz, Louis, Cambridge, Mass. (1). Born May 28, 1807. Died Dec. 14, 1873.

Ainsworth, J. G., Barry, Mass. (14).

Alexander, Stephen, Princeton, N. J. (1). Born Sept. 1, 1806. Died June 25, 1883.

Allen, Thomas, St. Louis, Mo. (27). Died April 8, 1882.

Allen, Zachariah, Providence, R. I. (1). Died March 17, 1882.

Allston, R. F. W., Georgetown, S. C. (3). Born April 21, 1801. Died April 7, 1864.

Alvord, Benjamin, Washington, D. C. (17). Died Oct. 16, 1884, at the age of 71.

Ames, M. P., Springfield, Mass. (1). Born in 1803. Died April 23, 1847.

Andrews, Ebenezer B., Lancaster, Ohio (7). Died Aug. 21, 1880, aged 59.

Anthony, Charles H., Albany, N. Y. (6). Died in 1874.

Appleton, Nathan, Boston, Mass. (1). Born Oct. 6, 1779. Died July 14, 1861.

Armstrong, John W., Fredonia, N. Y. (24).

Atwater, Mrs. S. T., Chicago, Ill. (17). Born Aug. 8, 1812. Died April 11, 1878.

Aufrecht, Louis, Cincinnati, Ohio (30).

Bache, Alexander D., Washington, D. C. (1). Born July 19, 1806. Died Feb. 17, 1867.

Bache, Franklin, Philadelphia, Pa. (1). Born Oct. 25, 1792. Died March 19, 1864.

Bailey, Jacob W., West Point, N. Y. (1). Born April 29, 1811. Died Feb. 26, 1857.

Bardwell, F. W., Lawrence, Kan. (13). Died in 1878.

Barnard, John G., New York, N. Y. (14). Died May 14, 1882.

Barrett, Moses, Milwaukee, Wis. (21). Died in 1873.

Barry, Redmond, Melbourne, Australia (25).

Beck, C. F., Philadelphia, Pa. (1).
Beck, Lewis C., New Brunswick, N. J. (1). Born Oct. 4, 1798. Died April 21, 1853. [1855.
Beck, T. Romeyn, Albany, N. Y. (1). Born Aug. 11, 1791. Died Nov. 19,
Beckwith, Henry C., Coleman's Station, N. Y. (29). Died July 12, 1885.
Belfrage, G. W., Clifton, Texas (29). Died Dec. 7, 1882.
Belt, Thomas, London, Eng. (27). Died Sept. 8, 1878.
Benedict, George W., Burlington, Vt. (16). Born Jan. 11, 1796. Died in 1871.
Bicknell, Edwin, Boston, Mass. (18). Born in 1830. Died March 19, 1877.
Binney, Amos, Boston, Mass. (1). Born Oct. 18, 1803. Died Feb. 18, 1847.
Binney, John, Boston, Mass. (3).
Blackie, Geo. S., Nashville, Tenn. (26).
Blair, Henry W., Washington, D. C., (26). Died Dec. 15, 1884.
Blake, Homer C., New York, N. Y. (28). Born Feb. 1, 1822.
Blanding, William, ———, R. I. (1).
Blatchford, Thomas W., Troy, N. Y. (6).
Blatchley, Miss S. L., New Haven, Conn. (19). Died March 13, 1873.
Boadle, John, Haddonfield, N. J. (20). Born in 1805. Died in July, 1878.
Bomford, George, Washington, D. C. (1). Born 1780. Died March 25, 1848.
Bowron, James, South Pittsburg, Tenn. (26). Died in Dec., 1877.
Bradley, Leverette, Jersey City, N. J. (15). Died in 1875.
Braithwaite, Jos., Chambly, C. W. (11).
Briggs, Albert D., Springfield, Mass. (13). Died Feb. 20, 1881.
Briggs, Robert, Philadelphia, Pa. (29). Born May 18, 1822. Died July 24, 1882.
Brigham, Charles H., Ann Arbor, Mich. (17). Born July 27, 1820. Died in Jan., 1879.
Brown, Andrew, Natchez, Miss. (1).
Brown, Horace, Salem, Mass. (27). Died in July, 1883.
Bull, John, Washington, D. C. (31). Born Aug. 1, 1819. Died June 9, 1884.
Burbank, L. S., Woburn, Mass. (18).
Burnap, G. W., Baltimore, Md. (12). Born Nov. 30, 1802. Died Sept. 8, 1859.
Burnett, Waldo I., Boston, Mass. (1). Died July 1, 1854, aged 27.
Butler, Thomas B., Norwalk, Conn. (10). Born Aug. 22, 1806. Died June 8, 1873.

Cairns, F. A., New York, N. Y. (27). Died in 1879.
Campbell, Mrs. Mary H., Crawfordsville, Ind. (22). Died Feb. 27, 1882.
Carpenter, Thornton, Camden, S. C. (7).
Carpenter, William M., New Orleans, La. (1).
Case, Leonard, Cleveland, Ohio (15). Born June 27, 1820. Died Jan. 5, 1880.

Case, William, Cleveland, Ohio (6).
Caswell, Alexis, Providence, R. I. (2). Born Jan. 29, 1799. Died Jan. 8, 1877.
Chadbourne, Paul Ansel, Amherst, Mass. (10). Born Oct. 21, 1823. Died Feb. 28, 1883.
Chapman, N., Philadelphia, Pa. (1). Born May 28, 1780. Died July 1, 1853.
Chase, Stephen, Hanover, N. H. (2). Born in 1813. Died Aug. 5, 1851.
Chauvenet, William, St. Louis, Mo. (1). Born May 24, 1819. Died Dec. 13, 1870.
Cheesman, Louis M., Hartford, Conn. (32). Died in Jan. 1885, aged 27 years.
Cheney, Miss Margaret S., Jamaica Plain, Mass. (29).
Clapp, Asahel, New Albany, Ind. (1). Born Oct. 5, 1792. Died Dec. 15, 1862.
Clark, Henry James, Cambridge, Mass. (13). Died July 1, 1873, aged 47.
Clark, Joseph, Cincinnati, Ohio (5).
Clarke, A. B., Holyoke, Mass. (13).
Cleaveland, C. H., Cincinnati, Ohio (9).
Cleveland, A. B., Cambridge, Mass. (2).
Coffin, James H., Easton, Pa. (1). Born Sept. 6, 1806. Died Feb. 6, 1873.
Cole, Thomas, Salem, Mass. (1). Born Dec. 24, 1779. Died June 24, 1852.
Coleman, Henry, Boston, Mass. (1).
Collins, Frederick, Washington, D. C. (28). Born Dec. 5, 1842. Died Oct. 27, 1881.
Conrad, Timothy Abbott, Philadelphia, Pa. (1). Born in August, 1803. Died August 9, 1877.
Cooke, Caleb, Salem, Mass. (18). Born Feb. 15, 1838. Died June 5, 1880.
Cooper, William, Hoboken, N. J. (9). Died in 1864.
Copes, Joseph S., New Orleans, La. (11).
Corning, Erastus, Albany, N. Y. (6). Born Dec. 14, 1794. Died April 9, 1872.
Couper, James Hamilton, Darien, Ga. (1). Born March 5, 1794. Died July 3, 1866.
Cramp, J. M., Wolfville, N. S. (11). Born July 25, 1796. Died Dec. 6, 1881.
Crehore, John D., Cleveland, Ohio (24).
Crocker, Charles F., Lawrence, Mass. (22). Died in July, 1881.
Crosby, Alpheus, Salem, Mass. (10). Born Oct. 13, 1810. Died Apr. 17, 1874.
Crosby, Thomas R., Hanover, N. H. (18). Born Oct. 22, 1816. Died March 1, 1872.
Croswell, Edwin, Albany, N. Y. (6). Born in May, 1797. Died June 13, 1871.
Crow, Wayman, St. Louis, Mo. (27). Died 1885.
Curry, W. F., Geneva, N. Y. (11).
Curtis, Josiah, Washington, D. C. (18). Died Aug. 1, 1883.

Dalrymple, E. A., Baltimore, Md. (11). Died Oct. 30, 1881.

Dayton, Edwin A., Madrid, N. Y. (7). Born in 1827. Died June 24, 1873.
Dean, Amos, Albany, N. Y. (6). Born Jan. 16, 1803. Died Jan. 26, 1868.
Dearborn, George H. A. S., Roxbury, Mass. (1).
Dekay, James E., New York, N. Y. (1). Born in 1792. Died Nov. 21, 1851.
DeLaski, John, Carver's Harbor, Me. (18).
Dewey, Chester, Rochester, N. Y. (1). Born Oct. 25, 1781. Died Dec. 15, 1867.
Dexter, G. M., Boston, Mass. (11).
Dillingham, W. A. P., Augusta, Me. (17).
Dimmick, L. N., Santa Barbara, Cal. (29). Died May 31, 1884.
Doggett, Mrs. Kate N., Chicago, Ill. (17). Died March 12, 1884.
Doggett, Wm. E., Chicago, Ill. (17). Born Nov. 20, 1820. Died in 1876.
Doolittle, L., Lenoxville, C. E. (11). Died in 1862.
Dorr, E. P., Buffalo, N. Y. (15). Died March 28, 1881.
Draper, Henry, New York, N. Y. (28).
Ducatel, J. T., Baltimore, Md. (1).
Duffield, George, Detroit, Mich. (10). Born July 4, 1794. Died June 26, 1869.
Dumont, A. H., Newport, R. I. (14).
Duncan, Lucius C., New Orleans, La. (10). Died Aug. 9, 1855, aged 54.
Dunn, R. P., Providence, R. I. (14).

Easton, Norman, Fall River, Mass. (14). Died Dec. 21, 1872.
Eaton, James H., Beloit, Wis. (17). Died Jan. 5, 1877.
Elsberg, Louis, New York, N. Y. (23). Died Feb. 19, 1885, aged 48 years.
Elwyn, Alfred L., Philadelphia, Pa. (1). Died March 15, 1884.
Ely, Charles Arthur, Elyria, Ohio (4).
Emerson, Geo. B., Boston, Mass. (1). Born Sept. 12, 1797. Died March 4, 1881.
Emmons, Ebenezer, Williamstown, Mass. (1). Born May 16, 1799. Died October 1, 1863.
Engelmann, George, St. Louis, Mo. (1). Born Feb. 2, 1809. Died Feb. 4, 1884.
Engstrom, A. B., Burlington, N. J. (1).
Eustis, Henry L., Cambridge, Mass. (2). Born Feb. 1, 1819. Died Jan. 11, 1885.
Everett, Edward, Boston, Mass. (2). Born April 11, 1794. Died Jan. 15, 1865.
Ewing, Thomas, Lancaster, Ohio (5). Born Dec. 28, 1789. Died Oct. 26, 1871.

Faries, R. J., Wauwatosa, Wis. (21). Died May 31, 1878.
Farquharson, Robert James, Des Moines, Iowa. (24). Died Sept. 6, 1884.
Ferris, Isaac, New York, N. Y. (6). Born Oct. 9, 1798. Died June 16, 1873.
Feuchtwanger, Lewis, New York, N. Y. (11). Died June 25, 1876.
Fillmore, Millard, Buffalo, N. Y. (7). Born Jan. 7, 1800. Died March 8, 1874.
Fisher, Mark, Trenton, N. J. (10).

Fitch, Alexander, Hartford, Conn. (1). Born March 25, 1799. Died Jan. 20, 1859.
Fitch, O. H., Ashtabula, Ohio (7). Died Sept. 17, 1882, in his 80th year.
Forbush, E. B., Buffalo, N. Y. (15).
Force, Peter, Washington, D. C. (4). Born Nov. 26, 1790. Died Jan. 23, 1868.
Ford, A. C., Nashville, Tenn. (26).
Forshey, Caleb G., New Orleans, La. (21). Died in Aug., 1881.
Foster, John W., Chicago, Ill. (1). Born March 4, 1815. Died June 29, 1873.
Foucon, Felix, Madison, Wis. (18).
Fowle, Wm. B., Boston, Mass. (1). Born Oct. 17, 1795. Died Feb. 6, 1865.
Fox, Charles, Grosse Ile, Mich. (7).
Frazer, John F., Philadelphia, Pa. (1). Born July 8, 1812. Died Oct. 12, 1872.
French, J. W., West Point, N. Y. (11).

Garber, A. P., Columbia, Pa. (29). Died Aug. 26, 1881.
Gavit, John E., New York, N. Y. (1).
Gay, Martin, Boston, Mass. (1). Died Jan. 12, 1850, aged 46.
Gibbon, J. H., Charlotte, N. C. (3).
Gillespie, W. M., Schenectady, N. Y. (10). Born in 1816. Died Jan'y 1, 1868.
Gilmor, Robert, Baltimore, Md. (1).
Glazier, W. W., Key West, Fla. (29). Died Dec. 11, 1880.
Goldmark, J., New York, N. Y. (29). Died in April, 1882.
Gould, Augustus A., Boston, Mass. (11). Born April 23, 1805. Died Sept. 15, 1866.
Gould, B. A., Boston, Mass. (2). Born June 15, 1787. Died Oct. 24, 1859.
Graham, James D., Washington, D. C. (1). Born in 1799. Died Dec. 28, 1865.
Gray, Alonzo, Brooklyn, N. Y. (13). Born in 1808. Died March 10, 1860.
Gray, James H., Springfield, Mass. (6).
Greene, Benjamin D., Boston, Mass. (1). Died Oct. 14, 1862, aged 68.
Greene, Everett W., Madison, N. J. (10). Died in 1864.
Greene, Samuel, Woonsocket, R. I. (9). Died in 1868.
Greer, James, Dayton, Ohio (20). Died in Feb., 1874.
Griffith, Robert E., Philadelphia, Pa. (1).
Griswold, John A., Troy, N. Y. (19). Born in 1822. Died Oct. 31, 1872.
Guest, William E., Ogdensburg, N. Y. (6).
Guyot, Arnold, Princeton, N. J. (1). Born Sept. 5, 1809. Died Feb. 8, 1884.

Hackley, Charles W., New York, N. Y. (4). Born March 9, 1809. Died January 10, 1861.
Hadley, George, Buffalo, N. Y. (6). Born June, 1813. Died Oct. 16, 1877.

Haldeman, S. S., Chickies, Pa. (1). Died Sept. 10, 1880, aged 68.
Hale, Enoch, Boston, Mass. (1). Born Jan. 29, 1790. Died Nov. 12, 1848.
Hance, Ebenezer, Fallsington P. O., Pa. (7). Died in 1876.
Hare, Robert, Philadelphia, Pa. (1). Born Jan. 17, 1781. Died May 15, 1858.
Harlan, Joseph G., Haverford, Pa. (8).
Harlan, Richard, Philadelphia, Pa. (1).
Harris, Thaddeus W., Cambridge, Mass. (1). Born Nov. 12, 1795. Died Jan. 16, 1856.
Harrison, A. M., Plymouth, Mass. (29).
Harrison, Jos., jr., Philadelphia, Pa. (12).
Hart, Simeon, Farmington, Conn. (1). Died April 20, 1853, aged 57.
Hartt, Charles F., Ithaca, N. Y. (18). Born in 1840. Died March 18, 1878.
Haven, Joseph, Chicago, Ill. (17). Born Jan. 4, 1816. Died May 23, 1874.
Hawes, George W., Washington, D. C. (23). Born Dec. 31, 1848. Died June 22, 1882.
Hayden, H. H., Baltimore, Md. (1).
Hayes, George E., Buffalo, N. Y. (15).
Hayward, James, Boston, Mass. (1). Died July 27, 1866, aged 80.
Hempstead, G. S. B., Portsmouth, Ohio (29). Died July 9, 1883, in his 89th year.
Henry, Jos., Washington, D. C. (1). Born Dec. 17, 1797. Died May 13, 1878.
Hickox, S. V. R., Chicago, Ill. (17). Died in 1872.
Hilgard, Theo. C., St. Louis, Mo. (17). Born Feb. 28, 1828. Died Mch. 5, 1875.
Hill, Walter N., Chester, Pa. (29). Born April 15, 1846. Died March 29, 1884.
Hincks, William, Toronto, C. W. (11).
Hitchcock, Edward, Amherst, Mass. (1). Born May 24, 1793. Died Feb. 27, 1864.
Hodgson, W. B., Savannah, Ga. (10). Born 1815.
Holbrook, John E., Charleston, S. C. (1). Born Dec. 31, 1796. Died Sept. 8, 1871.
Hopkins, Albert, Williamstown, Mass. (19). Born July 14, 1807. Died May 25, 1872.
Hopkins, James G., Ogdensburg, N. Y. (10). Died in 1860.
Hopkins, T. O., Williamsville, N. Y. (10). Died in 1866.
Hopkins, Wm., Lima, N. Y. (5.) Died in March, 1867.
Horton, C. V. R., Chaumont, N. Y. (10). Died in 1862.
Horton, William, Craigville, N. Y. (1).
Hosford, Benj. F., Haverhill, Mass. (13). Died in 1864.
Hough, Franklin B., Lowville, N. Y. (4). Born 1822. Died June 11, 1885.
Houghton, Douglas, Detroit, Mich. (1). Born Sept. 21, 1809. Died Oct. 13, 1845.
Hovey, Edmund O., Crawfordsville, Ind. (20). Born July 15, 1801. Died March 10, 1877.
Howland, Theodore, Buffalo, N. Y. (15).
Hubbert, James, Richmond, Province of Quebec (16). Died in 1868.

Hunt, Edward B., Washington, D. C. (2). Born June 15, 1822. Died Oct. 2, 1863.
Hunt, Freeman, New York, N. Y. (11). Born March 21, 1804. Died March 2, 1858.

Ives, Moses B., Providence, R. I. (9). Died in 1857.
Ives, Thomas P., Providence, R. I. (10).

Jackson, Charles T., Boston, Mass. (1). Born June 21, 1805. Died Aug. 29, 1880.
James, Thomas Potts, Cambridge, Mass. (22). Born Sept. 1, 1803. Died Feb. 22, 1882.
Johnson, Walter R., Washington, D. C. (1). Born June 21, 1794. Died April 26, 1852.
Johnson, William Schuyler, Washington, D. C. (31). Born Sept. 20, 1859. Died Oct. 6, 1883.
Jones, Catesby A. R., Washington, D. C. (8).
Jones, Henry A., Portland, Me. (29). Died Sept. 3, 1883.
Jones, James H., Boston, Mass. (28).

Kedzie, W. K., Oberlin, Ohio (25).
Keely, George W., Waterville, Me. (1). Died in 1878.
Keep, N. C., Boston, Mass. (13). Died in March, 1875.
Kennicott, Robert, West Northfield, Ill. (12). Born Nov. 13, 1835. Died in 1866.
King, Mitchell, Charleston, S. C. (3). Born June 8, 1783. Died in 1862.
Kite, Thomas, Cincinnati, Ohio (5). Died Feb. 6, 1884.
Klippart, John H., Columbus, Ohio (17). Died October, 1878.
Knickerbocker, Charles, Chicago, Ill. (17). Died in 1873.
Knight, J. B., Philadelphia, Pa. (21). Died March 10, 1879.

Lacklan, R., Cincinnati, Ohio (11).
Lapham, Increase A., Milwaukee, Wis. (3). Born Mch. 7, 1811. Died Sept. 14, 1875.
LaRoche, R., Philadelphia, Pa. (12).
Lasel, Edward, Williamstown, Mass. (1). Born Jan. 21, 1809. Died in 1852.
Lawford, Frederick, Montreal, Canada (11). Died in 1866.
Le Conte, John L., Philadelphia, Pa. (1). Died Nov. 15, 1883.
Lederer, Baron von, Washington, D. C. (1).
Lieber, Oscar M., Columbia, S. C. (8). Born Sept. 8, 1830. Died June 27, 1862.
Lincklaen, Ledyard, Cazenovia, N. Y. (1).
Linsley, James H., Stafford, Conn. (1). Born May 5, 1787. Died Dec. 26, 1843.

Lockwood, Moses B., Providence, R. I. (9). Died in 1872.
Logan, William E., Montreal, Canada (1). Born April 23, 1798. Died June 22, 1875.
Loosey, Charles F., New York, N. Y. (12).
Lothrop, Joshua R., Buffalo, N. Y. (15).
Lyon, Sidney S., Jeffersonville, Ind. (20). Born Aug. 4, 1808. Died June 24, 1872.

Maack, G. A., Cambridge, Mass. (18). Died in Aug., 1873.
Mahan, Dennis H., West Point, N. Y. (9). Born April 2, 1802. Died Sept. 16, 1871.
Marsh, Dexter, Greenfield, Mass. (1).
Marsh, James E., Roxbury, Mass. (10).
Martin, B. N., New York, N. Y. (23). Died Dec. 26, 1883.
Mather, William W., Columbus, Ohio (1). Born May 24, 1804. Died Feb. 27, 1859.
Maude, John B., St. Louis, Mo. (27). Died in April, 1879.
Maupin, S., Charlottesville, Va. (10).
M'Conihe, Isaac, Troy, N. Y. (5).
McFadden, Thomas, Westerville, Ohio (30). Born Nov. 9, 1825. Died Nov. 9, 1883.
McMahon, Mathew, Albany, N. Y. (11).
Meade, George G., Philadelphia, Pa. (15). Born Dec. 30, 1815. Died Nov. 6, 1872.
Meek, F. B., Washington, D. C. (6). Born December 10, 1817. Died December 21, 1876.
Meigs, James Aitken, Philadelphia, Pa. (12). Born July 30, 1829. Died Nov. 9, 1879.
Minifie, William, Baltimore, Md. (12). Born in 1805. Died Oct. 24, 1880.
Mitchel, O. M., Cincinnati, Ohio (3). Born Aug. 28, 1810. Died Oct. 30, 1862.
Mitchell, William, Poughkeepsie, N. Y. (2). Died April 2, 1869, aged 76.
Mitchell, Wm. H., Florence, Ala. (17).
Morgan, Lewis H., Rochester, N. Y. (10). Born Nov. 21, 1818. Died Dec. 17, 1881.
Morgan, Mrs. Mary E., Rochester, N. Y. (31).
Morris, John B., Nashville, Tenn. (26).
Morton, Samuel G., Philadelphia, Pa. (1). Born Jan. 26, 1799. Died May 15, 1851.
Mudge, Benjamin F., Manhattan, Kansas (25). Born Aug. 11, 1817. Died Nov. 21, 1879, aged 62.
Monroe, Nathan, Bradford, Mass. (6). Born May 16, 1804. Died July 8, 1866.
Monroe, William, Concord, Mass. (18). Died April 27, 1877.
Mussey, William H., Cincinnati, Ohio (30). Born Sept. 13, 1818. Died Aug. 1, 1882.

Newland, John, Saratoga Springs, N. Y. (28). Died Jan. 18, 1880.
Newton, E. H., Cambridge, N. Y. (1).
Nichols, Charles A., Providence, R. I. (17). Born Jan. 4, 1826. Died Oct. 20, 1877.
Nicholson, Thomas, New Orleans, La. (21).
Nicollett, Jean N., Washington, D. C. (1). Born July 24, 1786. Died Sept. 11, 1843.
Norton, John P., New Haven, Conn. (1). Born in July, 1822. Died Sept. 5, 1852.
Norton, W. A., New Haven, Conn. (6).
Noyes, J. O., New Orleans, La. (21).
Nutt, Cyrus, Bloomington, Ind. (20). Died in 1875.

Oakes, Wm., Ipswich, Mass. (1). Born July 1, 1799. Died July 31, 1848.
Ogden, Robert W., New Orleans, La. (21). Died March 24, 1878.
Ogden, William B., High Bridge, Westchester Co., N. Y. (17). Born in 1805. Died Aug. 3, 1877.
Olmsted, Alexander F., New Haven, Conn. (4). Born Dec. 20, 1822. Died May 5, 1853.
Olmsted, Denison, New Haven, Conn. (1). Born June 18, 1791. Died May 13, 1859.
Olmsted, Denison, jr., New Haven, Conn. (1). Born Feb. 16, 1824. Died Aug. 15, 1846.
Orton, James, Poughkeepsie, N. Y. (18). Died Sept. 24, 1877.
Osbun, Isaac J., Salem, Mass. (29).
Otis, George Alexander, Washington, D. C. (10). Born Nov. 12, 1830. Died Feb. 23, 1881.

Packer, Harry E., Mauch Chunk, Pa. (30). Died Feb. 1, 1884.
Painter, Jacob, Lima, Pa. (23). Died in 1876.
Painter, Minshall, Lima, Pa. (7).
Parker, Wilbur F., West Meriden, Conn. (23). Died in 1876.
Parkman, Samuel, Boston, Mass. (1). Died Dec. 15, 1854, aged 38.
Payn, Charles H., Saratoga Springs, N. Y. (28). Born May 16, 1814. Died Dec. 20, 1881.
Peirce, B. O., Beverly, Mass. (18). Died Nov. 12, 1883, aged 71 years.
Peirce, Benjamin, Cambridge, Mass. (1). Born April 4, 1809. Died Oct. 6, 1880.
Perkins, George R., Utica, N. Y. (1). Born May 3, 1812. Died Aug. 22, 1876.
Perkins, Henry C., Newburyport, Mass. (18). Born Nov. 13, 1804. Died Feb. 2, 1873.
Perry, John B., Cambridge, Mass. (16). Died Oct. 3, 1872, aged 52.
Perry, M. C., New York, N. Y. (10).

Phelps, Mrs. Almira Hart Lincoln, Baltimore, Md. (13). Died July 15, 1884, in her 91st year.

Phillips, John C., Boston, Mass. (29). Died March 1, 1885, aged 46 yrs. 9 mos.

Piggot, A. Snowden, Baltimore, Md. (10).

Plumb, Ovid, Salisbury, Conn. (9).

Pope, Charles A., St. Louis, Mo. (12). Born May 15, 1818. Died July 6, 1870.

Porter, John A., New Haven, Conn. (14). Born March 15, 1822. Died Aug. 25, 1866.

Potter, Stephen H., Hamilton, Ohio (30). Born Nov. 10. 1812. Died Dec. 9, 1883.

Pourtalès, Louis François de, Cambridge, Mass. (1). Born in 1822. Died July 18, 1880.

Pruyn, John V. L., Albany, N. Y. (1). Born June 22, 1811. Died Nov. 21, 1877.

Pugh, Evan, Centre Co., Pa. (14).

Pulsifer, Sidney, Philadelphia, Pa. (21). Died March 24, 1884.

Putnam, Mrs. F. W., Cambridge, Mass. (19). Born Dec. 29, 1838. Died March 10, 1879.

Putnam, J. Duncan, Davenport, Iowa (27). Born Oct. 18, 1855. Died Dec. 10, 1881.

Read, Ezra, Terre Haute, Ind. (20). Died in 1877.

Redfield, William C., New York (1). Born March 26, 1789. Died Feb. 12, 1857.

Resor, Jacob, Cincinnati, Ohio (8). Died in 1871.

Robb, James, Fredericton, N. B. (4).

Robinson, Coleman T., Buffalo, N. Y. (15).

Rockwell, John A., Norwich, Conn. (10). Born August 27, 1803. Died February 10, 1861.

Rogers, Henry D., Glasgow, Scotland (1). Born 1809. Died May 29, 1866.

Rogers, James B., Philadelphia, Pa. (1). Born February 22, 1803. Died June 15, 1852.

Rogers, Robert E., Philadelphia, Pa. (18). Died Sept. 7, 1884.

Rogers, William Barton, Boston, Mass. (1). Born Dec. 7, 1804. Died May 30, 1882.

Root, Elihu, Amherst, Mass. (25). Born Sept. 14, 1845.

Sager, Abram, Ann Arbor, Mich. (6). Born December 22, 1810. Died August 6, 1877.

Sanders, Benjamin D., Wellsburg, W. Va. (19).

Schaeffer, Geo. C., Washington, D. C. (1). Died in 1873.

Schley, William, New York, N. Y. (28). Died in 1882.

Scott, Joseph, Dunham, C. E. (11). Died in 1865.

Seaman, Ezra C. (20).

Senter, Harvey S., Aledo, Ill. (20). Died in 1875.

Seward, William H., Auburn, N. Y. (1). Born May 16, 1801. Died Oct. 10, 1872.

Sheppard, William, Drummondville, Province of Quebec, Can. (11). Born in 1783. Died in 1867.

Sherwin, Thomas, Dedham, Mass. (11). Born March 26, 1799. Died July 23, 1869.

Silliman, Benjamin, New Haven, Conn. (1). Born August 8, 1779. Died November 22, 1864.

Silliman, Benjamin, New Haven, Conn. (1). Born Dec. 4, 1816. Died Jan. 14, 1885.

Skinner, John B., Buffalo, N. Y. (15). Died in 1871.

Slack, J. H., Philadelphia, Pa. (12).

Smith, Charles A., St. Louis, Mo. (27). Died in 1884.

Smith, David P., Springfield, Mass. (29). Born Oct. 1, 1830. Died Dec. 26, 1880.

Smith, J. Lawrence, Louisville, Ky. (1). Born Dec. 16, 1818. Died Oct. 12, 1883.

Smith, J. V., Cincinnati, Ohio (5).

Smith, James Y., Providence, R. I. (9). Born September 15, 1809. Died in 1876.

Smith, Lyndon A., Newark, N. J. (9). Born November 11, 1795. Died December 15, 1865.

Snell, Ebenezer S., Amherst, Mass. (2). Born October 7, 1801. Died in September, 1877.

Sparks, Jared, Cambridge, Mass. (2). Born May 10, 1789. Died March 14, 1866.

Spinzig, Charles, St. Louis, Mo. (27). Died Jan. 22, 1882.

Stearns, Josiah A., Boston, Mass. (29).

Stimpson, William, Chicago, Ill. (12). Died May 26, 1872.

Stone, Samuel, Chicago, Ill. (17). Born Dec. 6, 1798. Died May 4, 1876.

St. John, Joseph S., Albany, N. Y. (28). Died Nov. 23, 1882.

Sullivant, William S., Columbus, Ohio (7). Born Jan. 15, 1803. Died April 30, 1873.

Swain, James, Fort Dodge, Iowa (21). Born in 1816. Died in 1877.

Tallmadge, James, New York, N. Y. (1). Born Jan. 20, 1778. Died Oct. 3, 1853.

Taylor, Arthur F., Cleveland, Ohio (29). Born Dec. 10, 1853. Died June 28, 1883.

Taylor, Richard C., Philadelphia, Pa. (1). Born January 18, 1789. Died November 26, 1851.

Tenney, Sanborn, Williamstown, Mass. (17). Born in January, 1827. Died July 11, 1877.

Teschemacher, J. E., Boston, Mass. (1). Died Nov. 9, 1853, aged 63.

Thompson, A. Remsen, New York, N. Y. (1). Died in Oct., 1879.

Thompson, Alexander, Aurora, N. Y. (1).

Thompson, Zadock, Burlington, Vt. (1). Born May 23, 1796. Died Jan. 19, 1856.
Thurber, Isaac, Providence, R. I. (9).
Tillman, Samuel D., Jersey City, N. J. (15). Died in 1875.
Tobin, Thomas W., Louisville, Ky. (30). Died Aug. 4, 1883.
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Torrey, Joseph, Burlington, Vt. (2). Born Feb. 2, 1797. Died Nov. 26, 1867.
Totten, Joseph G., Washington, D. C. (1). Born August 23, 1788. Died April 22, 1864.
Townsend, Howard, Albany, N. Y. (10). Died in 1867.
Townsend, John K., Philadelphia, Pa. (1).
Townsend, Robert, Albany, N. Y. (9). Died in 1866.
Troost, Gerard, Nashville, Tenn. (1). Born March 15, 1776. Died Aug. 14, 1850.
Tuomey, Michael, Tuscaloosa, Ala. (1). Born September 29, 1805. Died March 20, 1857.
Tyler, Edward R., New Haven, Conn. (1). Died Sept. 28, 1848.

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Vanuxem, Lardner, Bristol, Pa. (1).
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Webster, J. W., Cambridge, Mass. (1). Died Aug. 30, 1850, aged 57.
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LOCAL COMMITTEE AT LARGE.

H. F. Atkinson, Rev. H. Anstice, J. S. Andrews, C. B. Barry, Dr. Ogden Backus, George A. Benton, S. C. Brewster, Miss Gertrude C. Blackall, Miss Elizabeth Bowles, W. N. Cogswell, W. F. Cogswell, H. H. Craig, Hon. Wm. Carroll, Hon. Richard Curran, Rev. C. P. Coit, Charles D. Chichester, Sherman Clarke, Hon. J. M. Davy, Dr. C. A. Dewey, Dr. A. Dann, J. E. Durand, Henry C. Denslow, Henry G. Danforth, Dr. W. S. Ely, P. H. Edick, George Ellwanger, Gustave Erbe. Dr. Porter Farley, W. H. Gorsline, E. N. Gueret, George P. Humphrey, Granger A. Hollister, Haywood Hawkes, George H. Humphrey, W. E. Hoyt, Dr. E. H. Howard, D. M. Hough, Dr. Wm. R. Howard, B. S. Hert, Rev. A. J. Hutton, G. Herman Haas, M. D. L. Hayes, Mrs. George D. Hale, Rev. G. Chapman Jones, Dr. J. J. Kempe, Mrs. J. J. Kempe, Dr. A. C. Kendrick, H. A. Kingsley, Miss Ella G. King, Dr. David Little, Dr. S. H. Linn, Edmund Lyon, Miss Ella J. Lawton, Miss Katherine Lewis, Mrs. Anna M. Lowry, Prof. W. C. Morey, T. C. Montgomery, Rev. N. T. Millard, Dr. R. M. Moore, Dr. H. S. Miller, J. T. McClintock, F. M. McFarlin, Mrs. J. H. McCartney, Milton Noyes, Prof. Howard Osgood, Dr. T. A. O'Hare, William Purcell, Charles A. Palmer, Gilman N. Perkins, Charles N. Pratt, Rev. T. H. Pattison, Joseph E. Putnam, Dr. C. E. Rider, John H. Rochester, Thomas Raines, Dr. J. O. Roe, Gilbert H. Reynolds, Ward V. Ranger, W. N. Radenhurst, Miss H. L. Reche, Hon. William Rumsey, Rev. H. E. Robins, E. H. Scranton, J. Moreau Smith, E. O Sage, Samuel Sloan, Rev. J. W. A. Stewart, Arthur C. Smith, Wm. R. Seward, Dr. H. H. Stebbins, M. W. Sprague, Prof. William A. Stevens, Miss Georgiana C. Stone, Rev. W. R. Taylor, J. Nelson Tubbs, Z. P. Taylor, Rev. B. O. True, Menzo Van Voorhis, Dr. M. A. Veeder, James Vick, John Van Voorhis, Charles H. Ward, Mrs. Charles H. Ward, Arthur L. White, C. B. Woodworth, Samuel Wilder, A. E. Wolff, Dr. L. A. Weigel, Dr. H. T. Williams, F. A. Whittlesey, J. M. Whitney, Hon. W. E. Werner, Henry A. Ward, jr., A. C. Walker, Mrs. H. E. Wells, Philip H. Yawman, Thomas G. Young.

MEETINGS AND OFFICERS OF THE AMERICAN ASSOCIATION OF GEOLOGISTS AND NATURALISTS.

MEETING.	DATE.	PLACE.	CHAIRMAN.	SECRETARY.	ASSIS'T SEC'Y.	TREASURER.
1st	April 2, 1840,	Philadelphia,	Edward Hitchcock,*	L. C. Beck,*		
2d	April 5, 1841,	Philadelphia,	Benjamin Silliman,*	L. C. Beck,*	B. Silliman, jr.,* C. B. Trego,*	
3d	April 25, 1842,	Boston,	S. G. Morton,*	C. T. Jackson,*	J. D. Whitney, M. B. Williams,*	
4th	April 26, 1843,	Albany,	Henry D. Rogers,*	B. Silliman, jr.,*		John Locke.*
5th	May 8, 1844,	Washington,	John Locke,*	B. Silliman, jr.,* O. P. Hubbard,		Douglas Houghton.*
6th	April 30, 1845,	New Haven,	Wm. B. Rogers,*	B. Silliman, jr.,* J. Lawrence Smith,*		Douglas Houghton.*
7th	Sept. 2, 1846,	New York,	C. T. Jackson,*	B. Silliman, jr.,*		E. C. Herrick.*
8th	Sept. 20, 1847,	Boston,	Wm. B. Rogers,†*	Jeffries Wyman,*		B. Silliman, jr.*

* Deceased.

† Professor ROGERS, as chairman of this last meeting, called the first meeting of the new Association to order and presided until it was fully organized by the adoption of a constitution. As he was thus the first presiding officer of the new Association, it was directed at the Hartford meeting that his name be placed at the head of the Past Presidents of the American Association for the Advancement of Science.

MEETINGS AND OFFICERS OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

MEETING.	DATE.	PLACE.	PRESIDENT.	VICE-PRESIDENT.	GENERAL SECRETARY.	PERMANENT SEC'Y.	TREASURER.
1st	Sept. 20, 1848,	Philadelphia, Pa.,	W. C. Redfield,*		Walter R. Johnson,*		Jeffries Wyman.*
2d	Aug. 14, 1849,	Cambridge, Mass.,	Joseph Henry,*		E. N. Horsford, 1		A. L. Elwyn.*
3d	Mar. 12, 1850,	Charleston, S. C.,	A. D. Bache,* 2		L. R. Gibbs, 3		St. J. Ravenel.* 4
4th	Aug. 19, 1850,	New Haven, Conn.,	A. D. Bache,*		E. C. Herrick,*		A. L. Elwyn.*
5th	May 5, 1851,	Cincinnati, Ohio,	A. D. Bache,*		W. B. Rogers, 5*	S. F. Baird,*	S. F. Baird.* 6
6th	Aug. 19, 1851,	Albany, N. Y.,	Louis Agassiz,*		W. B. Rogers,*	S. F. Baird,*	A. L. Elwyn.*
7th	July 28, 1853,	Cleveland, Ohio,	Benjamin Pierce,*		S. St. John,* 7	S. F. Baird*,	A. L. Elwyn.*
8th	April 26, 1854,	Washington, D. C.,	J. D. Dana,		J. Lawrence Smith,*	Joseph Lovering,*	J. L. LeConte*8
9th	Aug. 15, 1855,	Providence, R. I.,	John Torrey,*		Wolcott Gibbs,	Joseph Lovering,*	A. L. Elwyn.*
10th	Aug. 20, 1856,	Albany, N. Y.,	James Hall,		B. A. Gould,	Joseph Lovering,*	A. L. Elwyn.*
11th	Aug. 12, 1857,	Montreal, Canada,	Alexis Caswell,* 9	Alexis Caswell,*	John LeConte,	Joseph Lovering,*	A. L. Elwyn.*
12th	April 28, 1858,	Baltimore, Md.,	Alexis Caswell,* 10	John E. Holbrook,*†	W. M. Gillespie,* 11	Joseph Lovering,*	A. L. Elwyn.*
13th	Aug. 3, 1859,	Springfield, Mass.,	Stephen Alexander,*	Edward Hitchcock,*	William Chauvenet,*	Joseph Lovering,*	A. L. Elwyn.*
14th	Aug. 1, 1860,	Newport, R. I.,	Isaac Lea,*	B. A. Gould,	Joseph LeConte,	Joseph Lovering,*	A. L. Elwyn.*
15th	Aug. 15, 1866,	Buffalo, N. Y.,	F. A. P. Barnard,*	A. A. Gould,* 12	Elias Loomis, 13	Joseph Lovering,*	A. L. Elwyn.†*
16th	Aug. 21, 1867,	Burlington, Vt.,	J. S. Newberry,	Wolcott Gibbs,	C. S. Lyman,	Joseph Lovering,*	A. L. Elwyn.†*
17th	Aug. 5, 1868,	Chicago, Ill.,	B. A. Gould,	Charles Whittlesey,*	Simon Newcomb, 14	Joseph Lovering,*	A. L. Elwyn.†*
18th	Aug. 18, 1869,	Salem, Mass.,	J. W. Foster,*	O. N. Rood,	O. C. Marsh,	F. W. Putnam, 15*	A. L. Elwyn.†*
19th	Aug. 17, 1870,	Troy, N. Y.,	T. S. Hunt,* 16	T. S. Hunt,*	F. W. Putnam, 17	Joseph Lovering,*	A. L. Elwyn.†*
20th	Aug. 16, 1871,	Indianapolis, Ind.,	Asa Gray,*	G. F. Barker,	F. W. Putnam,	Joseph Lovering.*	W. S. Vaux.*
21st	Aug. 15, 1872,	Dubuque, Iowa,	J. Lawrence Smith,*	Alex. Winchell,*	E. S. Morse,	Joseph Lovering,*	W. S. Vaux.*
22d	Aug. 20, 1873,	Portland, Me.,	Joseph Lovering,*	A. H. Worthen,†*	C. A. White,	F. W. Putnam,	W. S. Vaux.*
23d	Aug. 12, 1874,	Hartford, Conn.,	J. L. LeConte,*	C. S. Lyman,*	A. C. Hamlin,	F. W. Putnam,	W. S. Vaux.†*

1. In place of Jeffries Wyman, *not present.*
2. In place of Joseph Henry, *not present.*
3. In place of E. C. Herrick, *not present.*
4. In place of A. L. Elwyn, *not present.*
5. In place of E. C. Herrick, *not present.*
6. In place of A. L. Elwyn, *not present.*
7. In place of J. D. Dana, *not present.*
8. In place of A. L. Elwyn, *not present.*
9. In place of J. W. Bailey, *deceased.*
10. In place of Jeffries Wyman, *not present.*
11. In place of Wm. Chauvenet, *not present.*
12. In place of R. W. Gibbes, *not present.*
13. In place of W. P. Trowbridge, *not present.*
14. In place of A. P. Rockwell, *called home 1st day.*
15. In place of Joseph Lovering, *in Europe.*
16. In place of Wm. Chauvenet, *too ill to be present.*
17. In place of C. F. Hartt, *in Brazil.*

* Deceased. † Not present at the meeting.

MEETINGS AND OFFICERS OF THE ASSOCIATION (*Continued*).

MEETING.	DATE.	PLACE.	PRESIDENT.	VICE PRESIDENT, SECTION A.	VICE PRESIDENT, SECTION B.	CHAIRMAN OF PERMANENT SUBSECTION OF CHEMISTRY.	CHAIRMAN OF PERMANENT SUBSECTION OF ANTHROPOLOGY.	CHAIRMAN OF PERMANENT SUBSECTION OF MICROSCOPY.	CHAIRMAN OF PERMANENT SUBSECTION OF ENTOMOLOGY.
24th	Aug. 11, 1875.	Detroit, Mich.,	J. E. Hilgard,*	H. A. Newton,	J. W. Dawson,	S. W. Johnson,	L. H. Morgan,*	———	———
25th	Aug. 23, 1876.	Buffalo, N. Y.,	W. B. Rogers,*	C. A. Young,	E. S. Morse,	G. F. Barker,	L. H. Morgan,*	R. H. Ward,	———
26th	Aug. 29, 1877.	Nashville, Tenn.,	S. Newcomb,	R. H. Thurston,[1]	O. C. Marsh,	N. T. Lupton,	Daniel Wilson,†	R. H. Ward,	———
27th	Aug. 21, 1878.	St. Louis, Mo.,	O. C. Marsh,	R. H. Thurston,	Aug. R. Grote,	F. W. Clarke,	———[2]	R. H. Ward,[3]	———
28th	Aug. 27, 1879.	Saratoga, N. Y.,	G. F. Barker,	S. P. Langley,	J. W. Powell,	F. W. Clarke,[4]	Daniel Wilson,	E. W. Morley,	———
29th	Aug. 25, 1880.	Boston, Mass.,	L. H. Morgan,*	Asaph Hall,	Alex. Agassiz,	J. M. Ordway,	J. W. Powell,	S. A. Lattimore,	———
30th	Aug. 17, 1881.	Cincinnati, Ohio,	G. J. Brush,	Wm. Harkness,[7]	E. T. Cox,[8]	G. C. Caldwell,[9]	G. Mallery,	A. B. Hervey,	J. G. Morris.

PERMANENT SECRETARY.	GENERAL SECRETARY.	SECRETARY OF SECTION A.	SECRETARY OF SECTION B.	SECRETARY OF PERMANENT SUBSECTION OF CHEMISTRY.	SECRETARY OF PERMANENT SUBSECTION OF ANTHROPOLOGY.	SECRETARY OF PERMANENT SUBSECTION OF MICROSCOPY.	SECRETARY OF PERMANENT SUBSECTION OF ENTOMOLOGY.	TREASURER.
F. W. Putnam,	S. H. Scudder,	S. P. Langley, T. C. Mendenhall,	E. S. Morse,	F. W. Clarke,	F. W. Putnam,	———	———	W. S. Vaux.*
F. W. Putnam,	T. C. Mendenhall,	A. W. Wright,	Albert H. Tuttle,	H. C. Bolton,	O. T. Mason,	E. W. Morley,	———	W. S. Vaux.*
F. W. Putnam,	Aug. R. Grote,	H. C. Bolton,	Wm. H. Dall,	P. Schweitzer,	———[2]	T. O. Summers, jr.,	———	W. S. Vaux.†*
F. W. Putnam,	H. C. Bolton,	F. E. Nipher,	George Little,	A. P. S. Stuart,	———[2]	G. J. Engelmann,	———	W. S. Vaux.†*
F. W. Putnam,	H. C. Bolton,[5]	J. K. Rees,	W. H. Dall,[6]	W. R. Nichols,*	J. G. Henderson,	A. B. Hervey,	———	W. S. Vaux.†*
F. W. Putnam,	J. K. Rees,	H. B. Mason,	C. V. Riley,	C. E. Munroe,	J. G. Henderson,	A. B. Hervey,	———	W. S. Vaux.*
F. W. Putnam,	C. V. Riley,	E. T. Tappan,[10]	Wm. Saunders,	A. Springer,[12]	J. G. Henderson,	W. H. Seaman,[11]	B. P. Mann,	W. S. Vaux.†

[1] In the absence of E. C. Pickering.
[2] The Subsection united with Sec. B.
[3] In the absence of G. S. Blackie.
[4] In the absence of Ira Remsen.
[5] In the absence of George Little.
[6] In the absence of A. C. Wetherby.
[7] In the absence of A. M. Mayer.
[8] In the absence of George Engelmann.
[9] In the absence of W. R. Nichols.
[10] In the absence of John Trowbridge.
[11] In the absence of S. P. Sharples.
[12] In place of H. W. Wiley, called away.
* Deceased.
† Not present.

MEETINGS AND OFFICERS OF THE ASSOCIATION. (*Continued.*)

MEETING.	DATE.	PLACE.	PRESIDENT.	VICE PRESIDENTS.				
				Section A.	Section B.	Section C.	Section D.	Section E.
31st	Aug. 23, 1882.	Montreal, Can.	J. W. Dawson,	W. A. Rogers,[1]	T.C. Mendenhall,	H. B. Bolton,	W. P. Trowbridge,	E. T. Cox,
32nd	Aug. 15, 1883.	Minneapolis, M.	C. A. Young,	W. A. Rogers,	H. A. Rowland,	E. W. Morley,	De Volsen Wood,[7]	C. H. Hitchcock,
33rd	Sept. 3, 1884.	Philadelphia, Pa.	J. P. Lesley,	H. T. Eddy,	J. Trowbridge,	J. W. Langley,	B. H. Thurston,	N. H. Winchell,
34th	Aug. 26, 1885.	Ann Arbor, Mich	H. A. Newton,	W. Harkness,[15]	S. P. Langley,[16]	N. T. Lupton,[17]	J. Burkitt Webb,	Edward Orton,
35th	Aug. 18, 1886.	Buffalo, N. Y.	E. S. Morse,	J. W. Gibbs,	C. F. Brackett,	H. W. Wiley,	O. Chanute,	T. C Chamberlin,
36th	Aug. 10, 1887.	New York, N. Y.	S. P. Langley,	J. R. Eastman,[26]	W. A. Anthony,	A. B. Prescott	E. B. Coxe,	G. K. Gilbert,

VICE PRESIDENTS.				Permanent Secretary.	General Secretary.	Assistant Gen. Secretary.	SECRETARIES OF SECTIONS.	
Section F.	Section G.	Section H.	Section I.				Section A.	Section B.
W. H. Dall,	A. H. Tuttle,	Alex. Winchell,*	E. B. Elliott,	F. W. Putnam,	Wm. Saunders,	J. R. Eastman.	H. T. Eddy,	C. S. Hastings,
W. J. Beal,	J. D. Cox,	O. T. Mason,	F. B. Hough,*	F. W. Putnam,	J. R. Eastman.	Alfred Springer,	G. W. Hough,[8]	F. E. Nipher.[9]
E. D. Cope,	T. G. Wormley,	E. S. Morse,	John Eaton,	F. W. Putnam,	Alfred Springer,	C. S. Minot.[12]	G. W. Hough,	N. D. C. Hodges,
T. J. Burrill,[18]	S. H. Gage,	J. O. Dorsey,[19]	Edw. Atkinson	F. W. Putnam,	C. S. Minot,	S. G. Williams,[20]	E. W. Hyde,	B. F. Thomas,[21]
H. P. Bowditch,	——[25]	H. Hale,	J. Cummings,*	F. W. Putnam,	S. G. Williams,	W. H. Pettee,	S. C. Chandler,	H. S. Carhart,
W. G. Farlow,	———	D. G. Brinton,	H. E. Alvord,	F. W. Putnam.	W. H. Pettee,	J. C. Arthur,	H. M. Paul,	C. Leo Mees,

SECRETARIES OF THE SECTIONS.							Treasurer.
Section C.	Section D.	Section E.	Section F.	Section G.	Section H.	Section I.	
Alfred Springer,	J. B. Webb,[3]	H. S. Williams,[4]	Wm. Osler.[5]	Robt. Brown, jr.,	O. T. Mason.	F. B. Hough,[6]*	———*
J. W. Langley,[10]	J. B. Webb,[11]	A. A. Julien,	S. A. Forbes,	Carl Seiler,	G. H. Perkins,	Jos. Cummings,*	William Lilly.
H. Carmichael,[13]	J. B. Webb,	E. A. Smith.	C. E. Bessey.	R. Hitchcock,	G. H. Perkins,[14]	C. W. Smiley,	William Lilly.
F. P. Dunnington.	C. J. H. Woodbury.	G. K. Gilbert,[22]	J. A. Lintner,[23]	W. H. Walmsley.	Erm. A. Smith,*	C. W. Smiley.[24]	William Lilly.
W. McMurtrie,	William Kent,	E. W. Claypole,	J. C. Arthur,	———[25]	A. W. Butler,	H. E. Alvord,	William Lilly.
C. S. Mabery,[27]	G. M. Bond,	W. M. Davis,[28]	J. H. Comstock,	———	C. C. Abbott,[29]	W. R. Lazenby,	William Lilly.

1 In the absence of William Harkness.
2 In the absence of Daniel Wilson.
3 In the absence of C. B. Dudley.
4 In the absence of C. E. Dutton.
5 In the absence of C. S. Minot.
6 F. B. Hough was called home and J. R. Dodge acted at the close of the meeting.
7 Absent but place was not filled
8 In the absence of W. W. Johnson.
9 In the absence of C. K. Wead.
10 W. M. McMurtrie, last three days of meeting.
11 Pro tempore.
12 In the absence of E. S. Holden.
13 In the absence of R. B. Warder.
14 In the absence of W. H. Holmes.
15 In the absence of J. M. Van Vleck.
16 In place of C. F. Brackett, resigned.
17 In the absence of W. R. Nichols.
18 In the absence of B. G. Wilder.
19 In the absence of W. H. Dall.
20 In place of C. C. Abbott, not present
21 In place of A. A. Michelson, resigned.
22 In the absence of H. C. Lewis.
23 In place of C. H. Fernald, resigned
24 In the absence of J. W. Chickering.
25 Section permanently united to Section F.
26 In place of W. Ferrel, resigned.
27 Absent; R. B. Warder acted as Sec'y Pro tem.
28 In place of T. B. Comstock, absent.
29 In place of F. W. Langdon, absent.

*Deceased.

MEETINGS AND OFFICERS OF THE ASSOCIATION (*Continued*).

MEETING.	DATE.	PLACE.	PRESIDENT.
37th.	Aug. 14, 1888.	Cleveland, Ohio.	J. W. Powell.
38th.	Aug. 26, 1889.	Toronto, Ontario.	T. C. Mendenhall.
39th.	Aug. 19, 1890.	Indianapolis, Ind.	G. L. Goodale.
40th.	Aug. 19, 1891.	Washington, D. C.	A. B. Prescott.
41st.	Aug. 16, 1892.	Rochester, N. Y.	Joseph LeConte.

VICE PRESIDENTS.

SECTION A.	SECTION B.	SECTION C.	SECTION D.
Ormond Stone.	A. A. Michelson.	C. E. Munroe.	C. J. H. Woodbury.
R. S. Woodward.	H. S. Carhart.	W. L. Dudley.	James E. Denton.
S. C. Chandler.	Cleveland Abbe.	R. B. Warder.	James E. Denton.
E. W. Hyde.	F. E. Nipher.	R. C. Kedzie.	Thomas Gray.
J. R. Eastman.	B. F. Thomas.	Alfred Springer.	J. B. Johnson.

SECTION E.	SECTION F.	SECTION H.	SECTION I.
George H. Cook.	C. V. Riley.	C. C. Abbott.	C. W. Smiley.
Charles A. White.	Geo. L. Goodale.	Garrick Mallery.	Charles S. Hill.
John C. Branner.	C. S. Minot.	Frank Baker.	J. Richards Dodge.
J. J. Stevenson.	J. M. Coulter.	Joseph Jastrow.	Edmund J. James.
H. S. Williams.	S. H. Gage.	W. H. Holmes.	

PERMANENT SECRETARY.	GENERAL SECRETARY.	SECRETARY OF COUNCIL.	TREASURER.
F. W. Putnam.	Julius Pohlman.	C. Leo Mees.	William Lilly.
F. W. Putnam.	C. Leo Mees.	H. C. Bolton.	William Lilly.
F. W. Putnam.	H. C. Bolton.	H. W. Wiley.	William Lilly.
F. W. Putnam.	H. W. Wiley.	A. W. Butler.	William Lilly.
F. W. Putnam.	A. W. Butler.	T. H. Norton.	William Lilly.

SECRETARIES OF SECTIONS.

SECTION A.	SECTION B.	SECTION C.	SECTION D.
C. C. Doolittle.	A. Macfarlane.	W. L. Dudley.	Arthur Beardsley.
G. C. Comstock.	E. L. Nichols.	Edward Hart.	W. B. Warner.
W. B. Beman.	E. M. Avery.	W. A. Noyes.	Thomas Gray.
F. H. Bigelow.	A. Macfarlane.	T. H. Norton.	William Kent.
Winslow Upton.	Brown Ayres.	J. L. Howe.	O. H. Landreth.

SECTION E.	SECTION F.	SECTION H.	SECTION I.
John C. Branner.	B. H. Fernow.	Frank Baker.	Charles S. Hill.
John C. Branner.	A. W. Butler.	W. M. Beauchamp.	J. R. Dodge.
Samuel Calvin.	J. M. Coulter.	Joseph Jastrow.	B. E. Fernow.
W J McGee.	A. J. Cook.	W. H. Holmes.	B. E. Fernow.
R. D. Salisbury.	B. D. Halsted.		Lester F. Ward.

MEETINGS.	PLACE.	YEAR.	MEMBERS IN ATTENDANCE.	NUMBER OF MEMBERS.
1.	Philadelphia	1848	?	461
2.	Cambridge	1849	?	540
3.	Charleston	1850	?	622
4.	New Haven	1850	?	704
5.	Cincinnati	1851	87	800
6.	Albany	1851	194	769
7.	Cleveland	1853	?	940
8.	Washington	1854	168	1004
9.	Providence	1855	166	605
10.	2nd Albany	1856	381	722
11.	Montreal	1857	351	946
12.	Baltimore	1858	190	962
13.	Springfield	1859	190	862
14.	Newport	1860	135	644
15.	Buffalo	1866	79	637
16.	Burlington	1867	73	415
17.	Chicago	1868	259	686
18.	Salem	1869	244	511
19.	Troy	1870	188	536
20.	Indianapolis	1871	196	668
21.	Dubuque	1871	164	610
22.	Portland	1873	195	670
23.	Hartford	1874	224	722
24.	Detroit	1875	165	807
25.	2nd Buffalo	1876	215	867
26.	Nashville	1877	173	953
27.	St. Louis	1878	134	962
28.	Saratoga	1879	256	1030
29.	Boston	1880	997	1555
30.	2nd Cincinnati	1881	500	1699
31.	2nd Montreal	1882	937	1922
32.	Minneapolis	1883	328	2033
33.	2nd Philadelphia	1884	1261*	1981
34.	Ann Arbor	1885	364	1956
35.	3d Buffalo	1886	445	1886
36.	New York	1887	729	1956
37.	2nd Cleveland	1888	342	1964
38.	Toronto	1889	424	1952
39.	2d Indianapolis.	1890	364	1944
40.	2d Washington.	1891	653†	2054

*Including members of the British Association and other foreign guests.
†Including twenty-four foreign Honorary members for the meeting.

COMMONWEALTH OF MASSACHUSETTS.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND SEVENTY-FOUR.

AN ACT

To Incorporate the "American Association for the Advancement of Science."

Be it enacted by the Senate and House of Representatives, in General Court assembled, and by the authority of the same, as follows:

Section 1. Joseph Henry of Washington, Benjamin Pierce of Cambridge, James D. Dana of New Haven, James Hall of Albany, Alexis Caswell of Providence, Stephen Alexander of Princeton, Isaac Lea of Philadelphia, F. A. P. Barnard of New York, John S. Newberry of Cleveland, B. A. Gould of Cambridge, T. Sterry Hunt of Boston, Asa Gray of Cambridge, J. Lawrence Smith of Louisville, Joseph Lovering of Cambridge and John LeConte of Philadelphia, their associates, the officers and members of the Association, known as the "American Association for the Advancement of Science," and their successors, are hereby made a corporation by the name of the "American Association for the Advancement of Science," for the purpose of receiving, purchasing, holding and conveying real and personal property, which it now is, or hereafter may be, possessed of, with all the powers and privileges, and subject to the restrictions, duties and liabilities set forth in the general laws which now or hereafter may be in force and applicable to such corporations.

Section 2. Said corporation may have and hold by purchase, grant, gift or otherwise, real estate not exceeding one hundred thousand dollars in value, and personal estate of the value of two hundred and fifty thousand dollars.

Section 3. Any two of the corporators above named are hereby authorized to call the first meeting of the said corporation in the month of August next ensuing, by notice thereof "by mail," to each member of the said Association.

Section 4. This act shall take effect upon its passage.

House of Representatives, March 10, 1874.
Passed to be enacted,
John F. Sanford, *Speaker.*

In Senate, March 17, 1874.
Passed to be enacted.
Geo. B. Loring, *President.*

March 19, 1874.
Approved,
W. B. Washburn.

Secretary's Department,
Boston, April 3, 1874.
A true copy, Attest:
David Pulsifer,
Deputy Secretary of the Commonwealth.

CONSTITUTION

OF THE

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

Incorporated by Act of the General Court of the Commonwealth of Massachusetts.

OBJECTS.

ARTICLE 1. The objects of the Association are, by periodical and migratory meetings, to promote intercourse between those who are cultivating science in different parts of America, to give a stronger and more general impulse and more systematic direction to scientific research, and to procure for the labors of scientific men increased facilities and a wider usefulness.

MEMBERS, FELLOWS, PATRONS AND HONORARY FELLOWS.

ART. 2. The Association shall consist of Members, Fellows, Patrons, Corresponding Members and Honorary Fellows.

ART. 3. Any person may become a Member of the Association upon recommendation in writing by two members or fellows, and election by the Council.

ART. 4. Fellows shall be elected by the Council from such of the members as are professionally engaged in science, or have by their labors aided in advancing science. The election of fellows shall be by ballot and a majority vote of the members of the Council at a designated meeting of the Council.

ART. 5. Any person paying to the Association the sum of one thousand dollars shall be classed as a Patron, and shall be entitled to all the privileges of a member and to all its publications.

ART. 6. Honorary Fellows of the Association, not exceeding three for each section, may be elected; the nominations to be made by the Council and approved by ballot in the respective sections before election by ballot in General Session. Honorary Fellows shall be entitled to all the privileges of Fellows and shall be exempt from all fees and assessments, and entitled to all publications of the Association issued after the date of their election. Corresponding Members shall consist of such scientists not re-

siding in America as may be elected by the Council, and their number shall be limited to fifty. Corresponding Members shall be entitled to all the privileges of members and to the annual volumes of Proceedings published subsequent to their election.

ART. 7. The name of any member or fellow two years in arrears for annual dues shall be erased from the list of the Association, provided that two notices of indebtedness, at an interval of at least three months, shall have been given; and no such person shall be restored until he has paid his arrearages or has been reëlected. The Council shall have power to exclude from the Association any member or fellow, on satisfactory evidence that said member or fellow is an improper person to be connected with the Association, or has in the estimation of the Council made improper use of his membership or fellowship.

ART. 8. No member or fellow shall take part in the organization of, or hold office in, more than one section at any one meeting.

OFFICERS.

ART. 9. The Officers of the Association shall be elected by ballot in General Session from the fellows, and shall consist of a President, a Vice-President from each section, a Permanent Secretary, a General Secretary, a Secretary of the Council, a Treasurer, and a Secretary of each Section; these, with the exception of the Permanent Secretary, shall be elected at each meeting for the following one, and, with the exception of the Treasurer and the Permanent Secretary, shall not be reëligible for the next two meetings. The term of office of Permanent Secretary shall be five years.

ART. 10. The President, or, in his absence, the senior Vice President present, shall preside at all General Sessions of the Association and at all meetings of the Council. It shall also be the duty of the President to give an address at a General Session of the Association at the meeting following that over which he presided.

ART. 11. The Vice Presidents shall be chairmen of their respective Sections, and of their Sectional Committees, and it shall be part of their duty to give an address, each before his own section, at such time as the Council shall determine. The Vice Presidents may appoint temporary chairmen to preside over the sessions of their sections, but shall not delegate their other duties. The Vice Presidents shall have seniority in order of their continuous membership in the Association.

ART. 12. The General Secretary shall be the Secretary of all General Sessions of the Association, and shall keep a record of the business of

these sessions. He shall receive the records from the Secretaries of the Sections, which, after examination, he shall transmit with his own records to the Permanent Secretary within two weeks after the adjournment of the meeting.

ART. 13. The Secretary of the Council shall keep the records of the Council. He shall give to the Secretary of each Section the titles of papers assigned to it by the Council. He shall receive proposals for membership and bring them before the Council.

ART. 14. The Permanent Secretary shall be the executive officer of the Association under the direction of the Council. He shall attend to all business not specially referred to committees nor otherwise constitutionally provided for. He shall keep an account of all business that he has transacted for the Association, and make annually a general report for publication in the annual volume of Proceedings. He shall attend to the printing and distribution of the annual volume of Proceedings, and all other printing ordered by the Association. He shall issue a circular of information to members and fellows at least three months before each meeting, and shall, in connection with the Local Committee, make all necessary arrangements for the meetings of the Association. He shall provide the Secretaries of the Association with such books and stationery as may be required for their records and business, and shall provide members and fellows with such blank forms as may be required for facilitating the business of the Association. He shall collect all assessments and admission fees, and notify members and fellows of their election, and of any arrearages. He shall receive, and bring before the Council, the titles and abstracts of papers proposed to be read before the Association. He shall keep an account of all receipts and expenditures of the Association, and report the same annually at the first meeting of the Council, and shall pay over to the Treasurer such unexpended funds as the Council may direct. He shall receive and hold in trust for the Association all books, pamphlets and manuscripts belonging to the Association, and allow the use of the same under the provisions of the Constitution and the orders of the Council. He shall receive all communications addressed to the Association during the interval between meetings, and properly attend to the same. He shall at each meeting report the names of fellows and members who have died since the preceding meeting. He shall be allowed a salary which shall be determined by the Council, and may employ one or more clerks at such compensation as may be agreed upon by the Council.

ART. 15. The Treasurer shall invest the funds received by him in such securities as may be directed by the Council. He shall annually present to the Council an account of the funds in his charge. No expenditure of the principal in the hands of the Treasurer shall be made without a unanimous vote of the Council, and no expenditure of the income received by the Treasurer shall be made without a two-thirds vote of the Council.

ART. 16. The Secretaries of the Sections shall keep the records of their respective sections, and, at the close of the meeting, give the same, including the records of subsections, to the General Secretary. They shall also be the Secretaries of the Sectional Committees. The Secretaries shall have seniority in order of their continuous membership in the Association.

ART. 17. In case of a vacancy in the office of the President, one of the Vice Presidents shall be elected by the Council as the President of the meeting. Vacancies in the offices of Vice President, Permanent Secretary, General Secretary, Secretary of the Council, and Treasurer, shall be filled by nomination of the Council and election by ballot in General Session. A vacancy in the office of Secretary of a Section shall be filled by nomination and election by ballot in the Section.

ART. 18. The Council shall consist of the past Presidents, and the Vice Presidents of the last meeting, together with the President, the Vice Presidents, the Permanent Secretary, the General Secretary, the Secretary of the Council, the Secretaries of the Sections, and the Treasurer of the current meeting, with the addition of one fellow elected from each Section by ballot on the first day of its meeting. The members present at any regularly called meeting of the Council, provided there are at least five, shall form a quorum for the transaction of business. The Council shall meet on the day preceding each annual meeting of the Association, and arrange the programme for the first day of the sessions. The time and place of this first meeting shall be designated by the Permanent Secretary. Unless otherwise agreed upon, regular meetings of the Council shall be held in the council room at 9 o'clock, A. M., on each day of the meeting of the Association. Special meetings of the Council may be called at any time by the President. The Council shall be the board of supervision of the Association, and no business shall be transacted by the Association that has not first been referred to, or originated with, the Council. The Council shall receive and assign papers to the respective sections; examine and, if necessary, exclude papers; decide which papers, discussions and other proceedings shall be published, and have the general direction of the pub-

lications of the Association; manage the financial affairs of the Association: arrange the business and programmes for General Sessions; suggests subjects for discussion, investigation or reports; elect members and fellows; and receive and act upon all invitations extended to the Association and report the same at a General Session of the Association. The Council shall receive all reports of Special Committees and decide upon them, and only such shall be read in General Session as the Council shall direct. The Council shall appoint at each meeting the following sub-committees who shall act, subject to appeal to the whole Council, until their successors are appointed at the following meeting: 1, on Papers and Reports; 2, on Members; 3, on Fellows.

ART. 19. The Nominating Committee shall consist of the Council, and one member or fellow elected by each of the Sections. It shall be the duty of this Committee to meet at the call of the President and nominate the general officers for the following meeting of the Association. It shall also be the duty of this Committee to recommend the time and place for the next meeting. The Vice President and Secretary of each Section shall be recommended to the Nominating Committee by a sub-committee consisting of the Vice President, Secretary, and three members or fellows elected by the Section.

MEETINGS.

ART. 20. The Association shall hold a public meeting annually, for one week or longer, at such time and place as may be determined by vote of the Association, and the preliminary arrangements for each meeting shall be made by the Local Committee, in conjunction with the Permanent Secretary and such other persons as the Council may designate.

ART. 21. A General Session shall be held at 10 o'clock A. M., on the first day of the meeting, and at such other times as the Council may direct.

SECTIONS AND SUBSECTIONS.

ART. 22. The Association shall be divided into Sections, namely:— A, *Mathematics and Astronomy;* B, *Physics;* C, *Chemistry, including its application to agriculture and the arts;* D, *Mechanical Science and Engineering;* E, *Geology and Geography;* F, *Biology;* [G, united to section F]; H, *Anthropology;* I, *Economic Science and Statistics.* The Council shall have power to consolidate any two or more Sections temporarily, and such consolidated Sections shall be presided over by the senior Vice President and Secretary of the Sections comprising it.

ART. 23. Immediately on the organization of a Section there shall be three fellows elected by ballot after open nomination, who, with the Vice President and Secretary, shall form its Sectional Committee. The Sectional Committees shall have power to fill vacancies in their own numbers. Meetings of the Sections shall not be held at the same time with a General Session.

ART. 24. The Sectional Committee of any Section may at its pleasure form one or more temporary Subsections, and may designate the officers thereof. The Secretary of a Subsection shall, at the close of the meeting, transmit his records to the Secretary of the Section.

ART. 25. A paper shall not be read in any Section or Subsection until it has been received from the Council and placed on the programme of the day by the Sectional Committee.

SECTIONAL COMMITTEES.

ART. 26. The Sectional Committees shall arrange and direct the business of their respective Sections. They shall prepare the daily programmes and give them to the Permanent Secretary for printing at the earliest moment practicable. No titles of papers shall be entered on the daily programmes except such as have passed the Council. No change shall be made in the programme for the day in a Section without the consent of the Sectional Committee. The Sectional Committees may refuse to place the title of any paper on the programme; but every such title, with the abstract of the paper or the paper itself, must be returned to the Council with the reasons why it was refused.

ART. 27. The Sectional Committees shall examine all papers and abstracts referred to the sections, and they shall not place on the programme any paper inconsistent with the character of the Association; and to this end they have power to call for any paper, the character of which may not be sufficiently understood from the abstract submitted.

PAPERS AND COMMUNICATIONS.

ART. 28. All members and fellows must forward to the Permanent Secretary, as early as possible, and when practicable before the convening of the Association, full titles of all the papers which they propose to present during the meeting, with a statement of the time that each will occupy in delivery, and also such abstracts of their contents as will give a general idea of their nature; and no title shall be referred by the Council to the Sectional Committee until an abstract of the paper or the paper itself has been received.

ART. 29. If the author of any paper be not ready at the time assigned, the title may be dropped to the bottom of the list.

ART. 30. Whenever practicable, the proceedings and discussions at General Sessions, Sections and Subsections shall be reported by professional reporters, but such reports shall not appear in print as the official reports of the Association unless revised by the Secretaries.

PRINTED PROCEEDINGS.

ART. 31. The Permanent Secretary shall have the Proceedings of each meeting printed in an octavo volume as soon after the meeting as possible, beginning one month after adjournment. Authors must prepare their papers or abstracts ready for the press, and these must be in the hands of the Secretaries of the Sections before the final adjournment of the meeting, otherwise only the titles will appear in the printed volume. The Council shall have power to order the printing of any paper by abstract or title only. Whenever practicable, proofs shall be forwarded to authors for revision. If any additions or substantial alterations are made by the author of a paper after its submission to the Secretary, the same shall be distinctly indicated. Illustrations must be provided for by the authors of the papers, or by a special appropriation from the Council. Immediately on publication of the volume, a copy shall be forwarded to every member and fellow of the Association who shall have paid the assessment for the meeting to which it relates, and it shall also be offered for sale by the Permanent Secretary at such price as may be determined by the Council. The Council shall also designate the institutions to which copies shall be distributed.

LOCAL COMMITTEE.

ART. 32. The Local Committee shall consist of persons interested in the objects of the Association and residing at or near the place of the proposed meeting. It is expected that the Local Committee, assisted by the officers of the Association, will make all essential arrangements for the meeting, and issue a circular giving necessary particulars, at least one month before the meeting.

LIBRARY OF THE ASSOCIATION.

ART. 33. All books and pamphlets received by the Association shall be in the charge of the Permanent Secretary, who shall have a list of the same printed and shall furnish a copy to any member or fellow on application. Members and fellows who have paid their assessments in full shall be allowed to call for books and pamphlets, which shall be delivered

to them at their expense, on their giving a receipt agreeing to make good any loss or damage and to return the same free of expense to the Secretary at the time specified in the receipt given. All books and pamphlets in circulation must be returned at each meeting. Not more than five books, including volumes, parts of volumes, and pamphlets, shall be held at one time by any member or fellow. Any book may be withheld from circulation by order of the Council.

Admission Fee and Assessments.

Art. 34. The admission fee for members shall be five dollars in addition to the annual assessment. On the election of any member as a fellow an additional fee of two dollars shall be paid.

Art. 35. The annual assessment for members and fellows shall be three dollars.

Art. 36. Any member or fellow who shall pay the sum of fifty dollars to the Association, at any one time, shall become a Life Member and as such shall be exempt from all further assessments, and shall be entitled to the Proceedings of the Association. All money thus received shall be invested as a permanent fund, the income of which, during the life of the member, shall form a part of the general fund of the Association; but, after his death, shall be used only to assist in original research, unless otherwise directed by unanimous vote of the Council.

Art. 37. All admission fees and assessments must be paid to the Permanent Secretary, who shall give proper receipts for the same.

Accounts.

Art. 38. The accounts of the Permanent Secretary and of the Treasurer shall be audited annually, by Auditors appointed by the Council.

Alterations of the Constitution.

Art. 39. No part of this Constitution shall be amended or annulled, without the concurrence of three-fourths of the members and fellows present in General Session, after notice given at a General Session of a preceding meeting of the Association.

MEMBERS

OF THE

AMERICAN ASSOCIATION

FOR THE

ADVANCEMENT OF SCIENCE.[1]

PATRONS.[2]

THOMPSON, MRS. ELIZABETH, Stamford, Conn. (22).
LILLY, GEN. WILLIAM, Mauch Chunk, Carbon Co., Pa. (28) F E
HERRMAN, MRS. ESTHER, 59 West 56th St., New York, N. Y. (29).

CORRESPONDING MEMBERS.[3]

Monselise, Prof. G., Via Principe Amedeo I, Milano, Italy (40). C
Warington, Robert, F.R.S., Rothamsted, Harpenden, England (40). C

MEMBERS.[4]

Abbe, Robert, 11 W. 50th St., New York, N. Y. (36).
Abrey, George Burchutt, C.E., Toronto, Ontario, Can. (38).
Acker, Dr. Geo. N., 913 16th St., Washington, D. C. (40). F
Adriance, John S., 231 Broadway, New York, N. Y. (39). C
Agard, Dr. A. H., 1259 Alice St., Oakland, Alameda Co., Cal. (28).
Aitkin, Miss Clara I., 210 Madison St., Brooklyn, N. Y. (40). H
Aitkin, Miss Helen J., 210 Madison St., Brooklyn, N. Y. (40). E H

[1] The numbers in parentheses indicate the meeting at which the member was elected. The black letters at the end of line indicate the sections to which members elect to belong. The Constitution requires that the names of all members two or more years in arrears shall be omitted from the list, but their names will be restored on payment of arrearages. Members not in arrears are entitled to the annual volume of Proceedings bound in paper. *The payment of ten dollars at one time entitles a member to the subsequent volumes to which he may be entitled, bound in cloth, or by the payment of twenty dollars, to such volumes bound in half morocco.*

[2] Persons contributing one thousand dollars or more to the Association are classed as Patrons, and are entitled to the privileges of members and to the publications.

The names of Patrons are to remain permanently on the list.

[3] See ARTICLE VI of the Constitution.

[4] Any Member or Fellow may become a Life Member by the payment of fifty dollars. The income of the money derived from a Life Membership is used for the general purposes of the Association during the life of the member; afterwards it is to be used to aid in original research. Life Members are exempt from the annual assessment, and are entitled to the annual volume. The names of Life Members are printed in small capitals in the regular list of Members and Fellows.

Alden, Jno., Pacific Mills, Lawrence, Mass. (36).
Allderdice, Wm. H., Ass't Eng. U. S. N., U. S. Naval Academy, Annapolis, Md. (33). D
Allen, J. M., Hartford, Conn. (22). D
Allen, W. F., 24 Park Place, New York, N. Y. (36).
Allen, Walter S., New Bedford, Mass. (39). C I
Ammidown, Edward H., P. O. Box 2739, New York, N. Y. (37).
Anderson, Alexander D., Washington, D. C. (38).
Angell, Geo. W. J., 44 Hudson St., New York, N. Y. (36).
Ansley, Clark F., Swedona, Mercer Co., Ill. (32). E H
Appleton, Rev. Edw. W., D.D., Ashbourne, Montgomery Co., Pa. (28).
Archambault, U. E., P. O. Box 1944, Montreal, P. Q., Can. (31).
Archbold, George, 1224 B St., S. E., Washington, D. C. (40).
Armstrong, Mrs. Lucius H., St. Nicholas, Duval Co., Fla. (30).
Ashmead, Wm. H., 825 Vermont Ave., Washington, D. C. (40). F
Atkinson, George F., Auburn, Ala. (39). F
Atkinson, Jno. B., Earlington, Hopkins Co., Ky. (26). D
Auhagen, Wilhelm, Mt. Pleasant, 17th St. ext., Washington, D. C. (40).
Austin, H. W., No. 3 B St., S. E., Washington, D. C. (40). C
Austin, Wm., Belvidere House, 4th Ave., cor. 18th St., New York, N. Y. (36).
Avery, Robert Stanton, 320 A St., S. E., Washington, D. C. (40). A
Avery, Samuel P., 4 E. 38th St., New York, N. Y. (36).
Ayer, Edward Everett, Room 12, The Rookery, Chicago, Ill. (37). H
Ayres, Horace B., Allamuchy, N. J. (40).

Babcock, Wm. H., Washington, D. C. (40).
Bain, James, jr, Toronto, Ontario, Can. (38).
Baker, Philip S., M.D., DePauw University, Greencastle, Ind. (39). C
Baker, Richard D., 112 So. 21st St., Philadelphia, Pa. (33). E C
Baker, Wm. G., 234 E. 15th St., New York, N. Y. (36).
Balderston, C. Canby, Westtown, Chester Co., Pa. (33). B
Baldwin, Miss Mary A., 28 Fulton St., Newark, N. J. (31). E
Baldwin, Mrs. G. H., 3 Madison Ave., Detroit, Mich. (34). H
Banes, Charles H., 1107 Market St., Philadelphia, Pa. (31). D
Bangs, Lemuel Bolton, M.D., 127 E. 34th St., New York, N. Y. (36).
Barber, D. H., Marion, Iowa (37).
Barclay, Robert, A.M., M.D., 3211 Lucas Ave., St. Louis, Mo. (30).
Bardeen, Francis L., M.D., Box 76, Onondaga Hill, N. Y. (32). C F B
Barge, B. F., Mauch Chunk, Pa. (33).
Barker, Francis C., 200 D St., N. W., Washington, D. C. (40). E
Barker, Mrs. Martha M., 26 Eleventh St., Lowell, Mass. (31). E H
Barnes, Hon. Willis L., Charlestown, Ind. (40). A B
Barnum, Miss Charlotte C., 144 Humphrey St., New Haven, Conn. (36). A
Barnett, Fred. P., 1012 N. 41st St., Philadelphia, Pa. (40). E
Barringer, Daniel M., Bullitt Building, Philadelphia, Pa. (40). C E
Barrows, Walter B., Dept. of Agric., Washington, D. C. (40). F

Bartley, Elias H., M.D., 21 Lafayette Ave., Brooklyn, N. Y. (33). C
Bass, Wm. H., 393 College Ave., Indianapolis, Ind. (39). D
Bastin, Edson Sewell, 3330 S. Park Ave., Chicago, Ill. (39).
Bates, Prof. Clinton Owen, Cedar Rapids, Iowa (38).
Bates, Wm. W., Com. of Navigation, Washington, D. C. (38).
Batterson, J. G., Hartford, Conn. (23).
Bauer, Louis A., U. S. Coast and Geodetic Survey, Washington, D. C. (40). A
Baxter, James N., care H. E. and C Baxter cor. Division and Bedford Sts., Brooklyn, N. Y. (36).
Beach, William H., Madison, Wis. (21). E B
Beall, Fielder, M. M., Lieut. U. S. A., Auditorium Building, Chicago, Ill. (40).
Bean, B. A., Ass't Curator, Dept. of Fishes, National Museum, Washington, D. C. (40). F
Bean, Thos. E., Box 441, Galena, Ill. (28). F
Beaver, Daniel B. D., M.D., 150 North 6th St., Reading, Pa. (39).
Bechdolt, Adolphus F., Supt. City Schools, Mankato, Minn. (32). E B F
Bell, C. M., M D., 320 Fifth Ave., New York, N. Y. (36).
Belt, R. V., 1314 10th St., N. W., Washington, D. C. (40).
Benner, Henry, N. W. University, Evanston, Ill. (40). A
Bennett, Charles M., Logansport, Ind. (39).
Benns, Chas. P., Schenectady, N. Y. (38). D
Benton, George W., High School, Indianapolis, Ind. (39). C
Beveridge, David, Room 1141, The Rookery, Chicago, Ill. (33). I
Biddle, James G., 924 Chestnut St., Philadelphia, Pa. (39).
Bien, Julius, 139 Duane St., New York, N. Y. (34). E H
Bigelow, Miss Clarissa, Kalamazoo. Mich. (39). A
Biggar, Hamilton F., M.D., 176 Euclid Ave., Cleveland, Ohio (40). B F
Bigney, Prof. A. J., Moore's Hill, Ind. (40). F
Bingham, Mrs. Martha A. (32).
Birdsall, Miss Louise W., 105 E 37th St., New York, N. Y. (37). F E
Bishop, Heber R., Mills Building, New York, N. Y. (36).
Bixby, Wm. H., Capt. of Eng , U .S. A., Newport, R. I. (34). D
Blackstock, Rev. W. S., 20 Homewood Ave., Toronto, Ont., Can. (38). E
Blackwell, Mrs. A. B., Elizabeth, N. J. (30). F C B
Blair, Mrs. Eliza N., 213 E Capitol St., Washington, D. C. (40).
Blatchford, Eliphalet W., 375 No. La Salle St., Chicago, Ill. (17). F
Blatchley, Willis S., Terre Haute, Ind. (39). F
Bleile, Albert M., M.D., 342 S. Fourth St., Columbus, Ohio (37). F
Blish, W. G., Niles, Mich. (33). B D
Blount, Henry F., University Park, Washington, D. C. (32). I B
Blount, Mrs Lucia E., Univ. Park, Washington, D. C. (34). H I
Boardman, William Dorr, 38 Kenilworth St., Roxbury, Mass. (38). E
Bolley, Henry L., North Dakota Agric. Coll., Fargo, North Dakota (39). F
Booraem, J. V. V., 204 Lincoln Place, Brooklyn, N. Y. (36).
Booth, Miss Mary A., Longmeadow, Mass. (34). F I

Bourland, Addison M., M.D., Van Buren, Ark. (29). C E F
Boustead, W. E., Toronto, Ontario, Can. (38).
Bouton, Chas. L., M.S., 2909 Park Ave., St. Louis, Mo. (40) A D
Bowers, Miss Virginia K., 61 Taylor St., Newport, Ky. (27). F H B C
Bowman, Chas. G., Lt. U. S. N., Naval Acad., Annapolis, Md. (33).
Bowman, Walker, Blacksburg, Va. (39).
Boyer, Jerome L., Superintendent Chestnut Hill Iron Ore Co., Reading, Pa. (35). D
Bradford, Chester, Patent Attorney, 16 & 18 Hubbard Block, Indianapolis, Ind. (39). D
Bradley, Charles S., Fort Wayne, Ind. (40).
Brannon, M. A., Fort Wayne, Ind. (39). F
Bray, Prof. C. D., College Hill, Mass. (29). D B
Brayton, Miss Sarah H., M.D., Evanston, Ill. (33).
Breckenridge, J. C., Inspector General U. S. A., Inspector General's Office, War Dept., Washington, D. C. (40). E
Brewer, Prof. Charles E., Wake Forest, N. C. (40).
Brice, Judge Albert G., 19 Camp St., New Orleans, La. (32). H
Bristol, Wm. H., Stevens Institute, Hoboken, N. J. (36). A B D
Britton, Wiley, Pension Office, Washington, D. C. (40). F
Bromwell, Wm., Museum of Hygiene, 1707 New York Ave., Washington, D. C. (40).
Brooks, Prof. Wm. P., Amherst, Mass. (38). C F
Broomall, Hon. John M., Media, Delaware Co., Pa. (23). A
Brown, Albert P., Ph.D., 501 Federal St., Camden, N. J. (33). F C
Brown, Miss Anna M., 528 W. 7th St., Cincinnati, Ohio (31). F
Brown, Prof. Charles Sumner, Rose Polytechnic Institute, Terre Haute, Ind. (39). D
Brown, C. Newton, Ohio State Univ., Columbus, Ohio (34).
Brown, Henry A., Saxonville, Mass. (38). I
Brown, Rev. Henry M., East Aurora, Erie Co., N. Y. (35). F C
Brown, Jonathan, 390 Broadway, Somerville, Mass. (29).
Brown, Paul Taylor, 103 Arch St., Philadelphia, Pa. (33). E
Brown, Samuel B., Morgantown, W. Va. (40). E
Brown, Prof. W. G., Lexington, Va. (40).
Brownell, Silas B., 71 Wall St., New York, N. Y. (36).
Brownell, Prof. Walter A., 905 University Avenue, Syracuse, N. Y. (30). E B C
Brunk, Thos. L., College Park, Md. (40). F
Bryce, Peter H., M.D., Toronto, Ontario, Can. (38).
Buckingham, Chas. L., 195 Broadway, New York, N. Y. (28).
Buffum, Miss Fannie A., Linden, Mass. (29). E C
Burke, William, U. S. Patent Office, Washington, D. C. (28).
Burman, Rev. W. A., Winnepeg, Manitoba (38). F H
Burns, Prof. James A., Box 206, Atlanta, Ga. (32). C E I
Burr, Mrs. Laura E., Commercial Hotel, Lansing, Mich. (34). B
Burton, Prof. Alfred E., Mass. Inst. of Tech., Boston, Mass. (40). E

Burwell, Arthur W., 208 Superior St., Cleveland, Ohio (37).
Bush, Rev. Stephen, D.D., Waterford, N. Y. (19). E H
Byrd, Mary E., Smith College, Northampton, Mass. (34). A
Byrnes, Eugene A., Principal Examiner of Metallurgy and Chemist of the Patent Office, Washington, D. C. (40).

Cabot, John W., Bellaire Nail Works, Bellaire, Belmont Co., Ohio (35). D
Calder, Edwin E., 15 Board of Trade Building, Providence, R. I. (29). C
Caldwell, Wm. H., State College, Centre Co., Pa. (37). I F
Calkins, Dr. Marshall, Springfield, Mass. (29).
Campbell, H. D., Ph.D., Lexington, Va. (40). F
Campbell, Jos. Addison, Queen Lane, Falls of Schuylkill P. O., Philadelphia, Pa. (33).
Campbell, Prof. John L., Crawfordsville, Ind. (39). B
Campbell, John T., Rockville, Ind. (39).
Campbell, Wm. A., M.D., Ann Arbor, Mich. (34). F B
Campbell, William Wallace, Astronomer in the Lick Observ., Univ. of Cal., Mount Hamilton, Cal. (38). A
Cannon, George L., jr., High School, Denver, Col. (39). F H
Cardeza, John M., M.D., Claymont, Del. (33). E
Carman, Prof. A. P., La Fayette, Ind. (39). B
Caron, C. K., Louisville, Ky. (30). E C
Carpenter, Geo. O., jr., care of St. Louis Lead and Oil Co., St. Louis, Mo. (29).
Carr, Oma, Ass't Chem. Dept. of Agric., Washington, D. C. (40).
Carrington, Col. Henry B., U. S. A., Hyde Park, Mass. (20).
CARTER, JAMES C., 277 Lexington Ave., New York, N. Y. (36).
Carter, James Madison G , M.D., Waukegan, Ill. (39). F
Carter, John E., Knox and Coulter Sts., Germantown, Pa. (33). B H
Carus, Paul, Ph.D., La Salle, Ill. (40).
Cary, Albert A. (36). D
Casey, Thomas L., Room 79, Army Building, 39 Whitehall St., New York, N. Y. (38). F
Catlin, Charles A., 133 Hope St., Providence, R. I. (33). C
Chadbourn, Erlon R., Lewiston, Me. (29).
Chandler, George V., Room 85, Patent Office, Washington, D. C. (40). B C
Chandler, John R., Ph.D., Fifth Ave. Hotel, New York, N. Y. (36). F H
Chaplin, Prof. Winfield S., care Washington Univ., St. Louis, Mo. (37). D A
Chapman, Mrs. Etta L., 1207 L St., N. W., Washington, D. C. (40).
Chapman, W. Albert, M.E., Yellville, Ark. (40). C
Charbonnier, Prof. L. H., University of Georgia, Athens, Ga. (26). A B D
Chase, Rev. E. B., Lake City, Minn. (37).
Chase, Mrs. Mariné J. (31). E F
Chase, R. Stuart, 53 Summer St., Haverhill, Mass. (18). F

Chatfield, A. F., Albany, N. Y. (29).
Cheshire, William W., 115 11th St., S. E., Washington, D. C. (40).
Chester, Commander Colby M., U. S. N., care Navy Dept., Washington, D. C. (28). E
Child, Wm. Addison, M.A., Ontario Rolling Mill Co., Swansea, Ont., Can. (38). C H D
Chipman, J. W., Indianapolis, Ind. (39). B
Christian, Ira W., Noblesville, Ind. (39).
Christie, James, Pencoyd, Pa. (33). D
Christy, Prof. Samuel B., Box 41, Berkeley, Cal. (35). D
Chrystie, Wm. F., Hastings-on-Hudson, New York, N. Y. (36).
Church, Royal Tyler, Turin, Lewis Co., N. Y. (38). D F
Claghorn, Clarence R., M.E., P. O. Box 806, Birmingham, Ala. (37). E
Clancy, Michael Albert, 1426 Corcoran St , Washington, D. C. (40). H
Clapp, Geo. H., 116 Water St., Pittsburgh, Pa. (33). H C
Clark, Alex. S., Westfield, N. J. (33).
Clark, Edward, 417 Fourth St., Washington, D. C. (40).
Clark, John S., 646 Washington St., Boston, Mass. (31). I B C
Clark, Thomas H., Clark Univ, Worcester, Mass. (40).
Clark, Wm. Brewster, M D., 50 E. 31st St., New York, N. Y. (33). F C
Clarke, Charles S., 130 Moss St., Peoria, Ill. (34).
Clarke, Francis Devereux, Principal Ark. Deaf Mute Inst., Little Rock, Arkansas (39). H
Clarke, Robert, Cincinnati, Ohio (30). H
Clement, Arthur G., Sup't N. Y. State Inst. for the Blind, Batavia, N. Y. (38). E
Clendenin, Miss Ida May, Columbia, Boone Co., Mo. (40). F
Clendenin, Wm. W., Box 722, Columbia, Mo. (37).
Coe, Henry W., M.D., Hibernian Building. Portland, Oregon (32). H F
Coffin, Amory, Phœnixville, Chester Co., Pa. (31). D
Coit, J. Milner, Ph.D., Saint Paul's School, Concord, N. H. (33). B C E
Colburn, Richard T., Elizabeth, N. J. (31). I F H
Colie, Edw. M., East Orange, N. J. (30). E I
Collin, Rev. Henry P., Coldwater, Mich. (37). F
Collins, Prof. Jos. V., Miami Univ., Oxford, Ohio (37). A
Colman, Henry, M.D., 7 Atlantic St., Lynn, Mass. (25). F
Colonna, B. A., U. S. C. and G. Survey, Washington, D. C. (37). E
Colton, Buel P., Normal, McLean Co., Ill. (34). F
Combs, George W., M.D., 30 E. Ohio St., Indianapolis, Ind. (39). F
Comstock, Dr. T. Griswold, 507 North 14th St., St. Louis, Mo. (29). F H
Conant, Miss E. Ida, 42 West 48th St., New York, N. Y. (33). H I F
Conant, Prof. L. L., Clark University, Worcester, Mass. (39). A
Condit, Chas. L., 1323 G St., Washington, D. C. (40).
Conklin, W. A., Director Central Park Menagerie, New York, N. Y. (29). F
Cook, Dr. Charles D., 133 Pacific St., Brooklyn, N. Y. (25).
Cook, Prof. Orator F., Clyde, N. Y. (40). F

Cooke, Martin W., Rochester, N. Y. (36).
Coon, Henry C., M.D., Alfred Centre, N. Y. (29). B C F
Cope, Thos. P., Awbury, Germantown, Pa. (33). I
Cordley, Arthur B., Washington, D. C. (40).
Costa, João Baptista Regueira (39). E
Cowell, Jno. F., Buffalo, N. Y. (35).
Cowles, Alfred H., 656 Prospect St., Cleveland, Ohio (37). B C
Coyrière, Mrs. E. M., 150 Fifth Ave., New York, N. Y. (36). H
Crafts, Robert H., 2329 So. 6th St., Minneapolis, Minn. (32). I B
Craighill, Col. Wm. P., 9 Pleasant St., Baltimore, Md. (37). D
Crandall, Prof. C. S., Fort Collins, Col. (40).
Crandall, R. Percy, Ass't Surgeon U. S. N., U. S. Naval Hospital, Brooklyn, N. Y. (39). F
Crawford, John, Leon, Nicaragua, C. A. (40). E H
Crawley, J. T., 1250 10th St., Washington, D. C. (40).
Creelman, G. C., B. S. A., Agricultural College, Miss. (38). F
Cresson, Dr. Hilborne T., 224 So. Broad St., Philadelphia, Pa. (39). H
Crockett, Charles W., Rensselaer Polytechnic Inst., Troy, N. Y. (39).
Croffut, William A., U. S. Geol. Survey, Washington, D. C. (38). H I
Crowell, A. F., Woods Holl, Mass. (30). C
Cruikshank, James, LL.D., 206 So. Oxford St., Brooklyn, N. Y. (36).
Crump, M. H., Col. Commanding 3d Reg. K. S. G., Bowling Green, Ky. (29). E
Cummins, W. F., Dallas, Texas (37). E
Cunningham, Francis A., 1613 Wallace St., Philadelphia, Pa. (33). D E B
Cunningham, Prof. Susan J., Swarthmore College, Swarthmore, Pa. (38). A
Cuntz, Johannes H., 325 Hudson St., Hoboken, N. J. (36).
Currier, John McNab, M.D., Newport, Vt. (28). H F E
Curtis, Edw., M.D., 120 Broadway, New York, N. Y. (36).
Curtis, Geo. Wm., West New Brighton, Staten Island, N Y. (36).
Curtis, William E., Bureau of American Republics, State Department, Washington, D. C. (40). H I
Curtman, Dr. Charles O., 3718 North 9th St., St. Louis, Mo. (39). C
Cushing, Frank H., Smithsonian Institution, Washington, D. C. (40). H
Cutler, Dr. Andrew S., Kankakee, Ill. (32). I E

Daly, Hon. Charles P., 84 Clinton Place, New York, N. Y. (36).
Dana, James Jackson, Lt. Col. and Brevet Brig. Gen. U. S. Army, 1913 1st St., N. W., Washington, D. C. (40).
Daniel, John, Vanderbilt Univ., Nashville, Tenn. (38). B
Daniels, Edw., Washington, D. C. (32).
Darton, Nelson H., U. S. Geol. Survey, Washington, D. C. (37).
Davenport, Prof. Eugene, Agricultural College, Mich. (39).
Davidson, R. J., Experiment Station, Blacksburg, Va. (40). C
Davis, C. H., Commander U. S. Navy, Chief Intelligence Officer, Navy Department, Washington, D. C. (40).

Davis, Dr. Charles H. S., Meriden, Conn. (40).
Davis, Prof. Floyd, Drake Univ., Des Moines, Iowa (39). C E
Davis, I. Thomas, Ass't Chem. Dept. of Agric., Washington, D. C. (40).
Davis, J. C. Bancroft, 1621 H St., N. W., Washington, D. C. (40).
Davis, J. J., M.D., 1119 College Ave., Racine, Wis. (31). F
Davison, John M., 60 Oxford St., Rochester, N. Y. (38). C
Dawson, Geo. M., D.S.C., F.G.S., Geol. Surv., Ottawa, Ontario, Can. (38).
Dean, Seth, Glenwood, Iowa (34). D
Decker, Edward P., Hospital for Insane, Evansville, Ind. (40).
DeForest, Henry S., Pres. Talladega College, Talladega, Alabama (32). H I
Deghnée, Joseph A., 247 Harrison St., Brooklyn, N. Y. (40). C
Detmers, Henry J., Ohio State Univ., Columbus, Ohio (39).
Dewey, L. H., Dept. of Agric., Washington, D. C. (40) F
Dexter, Julius, Cincinnati, Ohio (30).
Dickerson, Edw. N., LL.D., 64 E. 34th St., New York, N. Y. (36).
Dinsmore, Prof. Thos. H., jr., Emporia, Kan. (29). B C
Dinwiddie, William, Bureau of Ethnology, Washington, D. C. (40). H
Dittenhoefer, A. J., 96 Broadway, New York, N. Y. (36).
Dixwell, Epes S., Cambridge, Mass. (1). H F
Doane, Wm. Howard, Cincinnati, Ohio (36). D
Dodge, Charles Wright, M.S., Univ. of Rochester, Rochester, N. Y. (39). F
Dodge, Wm. C., 116 B St., N. E., Washington, D. C. (40). H
Donaldson, Luther M., care National Fertilizer Co., Nashville, Tenn. (38). C
Doolittle, Alfred, Lehigh Univ., Bethlehem, Pa. (40). A
Doran, Edwin W., Ph. D., College Park, Md. (40) F I
Dorand, Fred James, Chester, Vt. (38). A I
Doremus, R. Ogden, M.D., Bellevue Hospital, Medical College, New York, N. Y. (36).
Dorsey, George A., Peabody Museum, Cambridge, Mass. (39). H
Doubleday, H. H., 715 H St., N.W., Washington, D C. (40). H
Doughty, John W., 165 Johnston St., Newburgh, N. Y. (19). E
Douglass, Gayton A., 185 Wabash Ave., Chicago, Ill. (34). B
Dowling, J. W., M.D., 6 E. 43d St., New York, N. Y. (36).
Dowling, Thomas, jr., 614 E St., N. W., Washington, D. C. (40). H
Drummond, Isaac Wyman, Ph.D., 436 W. 22nd St., New York, N.Y. (36).
Dryer, Chas. R., Fort Wayne, Ind. (38). E
Dudek, Miss Katie M., 54 W. 55th St., New York, N. Y. (36). E
Dulaney, Judge William L., Bowling Green, Ky. (39).
Dummer, Edward, 82 Water St., Boston, Mass. (31). B D
Dunham, Dr. Carroll, Irvington-on-Hudson, New York, N. Y. (31). F
Dunston, Robert Edw., Room 86, Foster Block, Hartford, Conn. (35). D
DuPont, Francis G., Wilmington, Del. (33). A B D
Du Pré, Prof. Daniel A., Wofford College, Spartanburg, S. C. (28). B C E

Durfee, W. F., Birdsboro, Berks Co., Pa. (33). D C B A E I
Dyer, Clarence M., Lawrence, Mass. (22).

Earle, F. S., Ocean Springs, Miss. (39).
Eccles, Robert G., M.D., 191 Dean St., Brooklyn, N. Y. (31). F C
Edelheim, Carl, 253–259 N. Broad St., Philadelphia, Pa. (33).
Edson, Hubert, Ass't Chemist Dept. of Agriculture, Washington, D. C. (40).
Edson, Joseph R., 1003 F St., N. W., Washington, D. C. (40). E F H
Edwards, J. W., Rico, Col. (32).
Edwards, W. F., 62 North St., Ann Arbor, Mich. (33). B C F
Eggleston, Eugene R., M.D., 29 Euclid Ave., Cleveland, Ohio (37). F
Ellis, Wm. Hodgson, School of Practical Science, Toronto, Ontario, Can. (25).
Elmer, Howard N., St. Paul, Minn. (32). D I
Emery, Frank E., No. Caro. Experiment Station, Agric. and Mechan. Coll., Raleigh, N. C. (38). F
English, Geo. L., 733 Broadway, New York, N. Y. (36).
Estes, Dana, Brookline, Mass. (29). I
Evans, S. G., 211 Main St., Evansville, Ind. (39). F
Evans, Walter H., Indianapolis, Ind. (39). F
Everhart, Edgar, Ph.D., Univ. of Texas, Austin, Texas (36). C
Evers, Edw., M.D., 1861 North Market St., St. Louis, Mo. (28). F H
Ewell, Ervin E., Dept. of Agric., Chem. Division, Washington, D. C. (40). C
Ewell, Marshall D , M.D., Room 39, 97 Clark St., Chicago, Ill. (40).
Ewen, John Meiggs, 115 Monroe St., Chicago, Ill. (36). D

Failyer, Prof. George H., Manhattan, Kansas (32). C B
Fairchild, Benj. T., 82 Fulton St., New York, N. Y. (36).
Fairchild, David G., Dept. of Agric., Washington, D. C. (40) F
Fairfield, W. B., U. S. C. and G. Survey, Washington, D. C. (40). E
Falconer, Wm., Glen Cove, L. I. (29).
Fargis, Rev. Geo. A., Georgetown College, Georgetown, D. C. (40). A
Farnsworth, P. J., M.D., Clinton, Iowa (32). E H
Farr, Henry L., Box 365, Rutland, Vt. (31). E F
Fellows, Charles S., P. O. Box 966, Minneapolis, Minn. (34). F
Fellows, G. S., 1317 Q St., Washington, D. C. (36).
Ferree, Charles Maley, Kansas City, Mo. (37).
Ferrier, Walter F., Geol. Survey of Canada, Ottawa, Ont., Can. (31).
Fessenden, Cortez, Peterborough, Ontario, Can. (38). B
Finley, Jno. P., Lieut. U. S. A., Weather Bureau, Pacific Coast Division, San Francisco, Cal. (39). B
Fischer, E. G., U. S. Coast and Geodetic Survey, Washington, D. C. (40). A
Fish, Prof. Eugene E., Buffalo, N. Y. (35). F
Fisher, Miss Ellen F., Lake Erie Seminary, Painesville, Ohio (33). B A

Fisher, Geo. E., Rochester, N. Y. (37).
Fisher, Dr. R. Catlin, 1225 Conn. Ave., Washington, D. C. (36).
Fitz, Prof. Newton, Norfolk, Va. (30). A I
Flexner, Prof. Abraham, Louisville, Ky. (39).
Flexner, Simon, M.D., Louisville, Ky. (39).
Flint, Weston, Statistician, U. S. Bureau of Education, 1101 K St., N. W., Washington, D. C. (40).
Foltz, Kent O., M.D., Akron, Ohio (36).
Ford, Mrs. O. M. (36).
Fortescue, Kenyon J., 57 Fifth Ave., New York, N. Y. (39). H I
Fortescue, Miss Maude, 57 Fifth Ave., New York, N. Y. (40). H
Forwood, Dr. W. H., Soldiers' Home, Washington, D. C. (40).
Foshay, P. Max, Beaver Falls, Beaver Co., Pa. (37). E
Foster, Prof. Eugene H., Shattuck School, Faribault, Minn. (39).
Francis, Prof. J. M., Tuscaloosa, Ala. (40). C
Franklin, William S., Ames, Iowa (36).
Freeman, Prof. T. J. A., Woodstock Coll., Howard Co., Maryland (33). B C
Frick, Prof. John H., Central Wesleyan College, Warrenton, Mo. (27). E F B A
Frisbie, J. F., M.D., Box 455, Newton, Mass. (29). E H
Fristoe, Prof. E. T., Columbian Univ., Washington, D. C (40). C F H
Frost, Howard V., Ph.D., Arlington, Mass. (38). C
FROTHINGHAM. MRS. LOIS R., Milton, Mass. (31). F A I
Fuelling, J. L., Ass't Chem., Dept. of Agric., Washington, D. C. (40).
Fuller, Chas. G., M.D., Room 38, Central Music Hall, Chicago, Ill. (35). F
Fuller, Levi K., Brattleboro, Vt. (34). D A
Fuller, Melville W., LL.D., Chief Justice U. S., 1800 Mass. Ave., Washington, D. C. (40).

Gable, George D., Ph.D., Lafayette College, Easton, Pa. (40). A B
Galt, Eleanor, M.D., Elizabeth, N. J. (35). F E
Gardner, Rev. Corliss B., 8 New York St., Rochester, N. Y. (29). A B I
Gardner, Joseph, M.D., Bedford, Lawrence Co., Ind. (30).
GARLAND, JAMES, 2 Wall St., New York, N. Y. (36).
Garman, Harrison, Lexington, Ky. (38).
Garnett, Algernon S., M.D., Hot Springs, Ark. (23).
Garnier, Madame Laure R , Staunton, Va. (40).
Garrett, Philip C., Logan P. O., Philadelphia, Pa. (33). I E F H
Garth, Charles, Montreal, Can. (31).
Gause, Frederick T., care Stevens Inst. of Tech., Hoboken, N. J. (40).
GENTH, FRED. A., JR., 705 N. 40 St., Philadelphia, Pa. (32). C E
Genung, Nelson H., Cornell Univ., Ithaca, N. Y. (40). B
Gere, Geo. W., Champaign, Ill. (40).
Ghequier, A. de, P. O. Box 565, Washington, D.C. (30). I
Gibson, Chas. (38). C
Gibson, Chas. B., 813 Harrison St., Chicago, Ill. (34).

Gibson, Howard B., 16 Crescent St., Middletown, Conn. (38).
Gibson, J. Stewart, Williamsport, Pa. (39). C B
Gifford, T. V., M.D., Kokomo, Ind. (39). F H
Gill, Adam Capen, Northampton, Mass. (38).
Gillette, C. P., Ames, Iowa (37).
Glazebrook, Rev. Otis Allen, D.D., 1147 East Jersey St., Elizabeth, N. J. (38).
Glenn, William, 1348 Block St., Baltimore, Md. (33). C
GLENNY, WILLIAM H., JR., Buffalo, N. Y. (25).
Gobin, Hillary A., D.D., Greencastle, Ind. (39). H
Goldsmith, Edw., 658 North 10th St., Philadelphia, Pa. (29). C B
Goodale, Greenleaf A., Capt. 23rd Inf., U. S. A. Fort San Houston, San Antonio, Texas (39). H
Goode, R. U., care U. S. Geol. Survey, Washington, D. C. (39). A D E
Goodnow, Henry R., 32 Remsen St., Brooklyn, N. Y. (32). B
Goodridge, E. A., 85 Maine St., Flushing, N. Y. (36).
Gordon, Prof. Joseph C., National College for the Deaf, Kendall Green, Washington, D. C. (27).
Gordon, T. Winslow, M.D., Georgetown, Ohio (30). F H C
Gordon, W. J., 51 Water St., Cleveland, Ohio (29).
Gore, Prof. Joshua W., Univ. of No. Carolina, Chapel Hill, N. C. (39). B
Goss, Prof. Wm. F. M., La Fayette, Ind. (39).
Gould, Sylvester C., Manchester, N. H. (22). A B E H
Gould, Vernon, M.D., Rochester, Ind. (39).
Graef, Edw. L., 40 Court St., Brooklyn, N. Y. (28). F
Graf, Louis, Van Buren, Crawford Co., Ark. (30). E F H
Grant, H. L., 206 Moss Ave., Peoria, Ill. (39). C
Grant, Ulysses S., Geol. Survey of Minnesota, Minneapolis, Minn. (39). F
Greely, Adolphus W., Signal Office, Washington, D. C. (39).
Green, Edgar Moore, M.D., Easton, Pa. (36).
Green, Milbrey, M.D., 567 Columbus Ave., Boston, Mass. (29).
Greene, G. K., 170 East Third St., New Albany, Ind. (38).
Greene, Jacob L., Pres. Mut. Life Ins. Co., Hartford, Conn. (23).
Greene, Jeanette B., M.D., 56 W. 55th St., New York, N. Y. (33). F E C
Greene, Thos. A., 297 East Water St., Milwaukee, Wis. (31). E
Greenleaf, John T., Owego, N. Y. (33). F
Greenleaf, R. P., M.D., 803 Market St., Wilmington, Del. (31). B F
Greenough, W. W. 299 Marlborough St., Boston, Mass. (29). D I
Greve, Theodor L. A., M.D., 260 W. 8th St., Cincinnati, Ohio (30).
Griffin, Prof. La Roy F., Lake Forest, Ill. (34). B C E
Griffith, Ezra H., 28 Meigs St., Rochester, N. Y. (39).
Griscom, Wm. W., Haverford College P. O., Pa. (33). B C D
Griswold, Leon Stacy, 238 Boston St., Dorchester, Mass. (38). E
Gulliver, F. P., Norwich, Conn. (40). E
Gurley, Wm. F. E., Danville, Vermilion Co., Ill. (37) E

Hacker, William, 233 So. 4th St., Philadelphia, Pa. (33). F E

Hagemann, John, 125 Rusk St., Houston, Texas (29). C
Haight, Stephen S., C.E., 1266 Clover St., West Farms, New York, N. Y. (31). D
Hale, William H., Ph.D., 40 First Place, Brooklyn, N. Y. (32). I F H C B E A
Hall, James P., 6 Poplar St., Brooklyn, N. Y. (40).
Hall, Stanton L., M.D., 106 Euclid Ave., Cleveland, Ohio (36). H
Hall, Winfield S , M D., Haverford, Pa. (40).
Hallock, Albert P., Ph.D., 440 First Ave., New York, N. Y. (31). C
Hallock, Dr. William, U. S. Geol. Survey, Washington, D. C. (40). B E
Halsted, Prof. Geo. Bruce, Austin, Texas (38).
Hamilton, James Cleland, LL.B., Toronto, Ontario, Can. (38).
Hammon, W. H., Weather Bureau, St. Louis, Mo (37). B
Hammond, Geo. W., "The Hamilton," 260 Clarendon St., Boston, Mass. (28). C D
Hammond, Mrs. Geo. W., "The Hamilton," 260 Clarendon St., Boston, Mass. (29). H
Hargitt, Prof. Charles W., Syracuse, N. Y. (38). F
Harmon, Miss A. Maria, 49 Daly Avenue, Ottawa, Ontario, Canada (31). H F
Harper, Prof. Charles A., Univ. of Cincinnati, Cincinnati, Ohio (40). C
Harrington, W. H., Post Office Department, Ottawa, Ontario, Canada (29). F
Harris, A. W., Dept of Agric., Washington, D. C. (40).
Harris, George H., 30 Arcade, Rochester, N. Y. (35).
Harris, Gilbert D., Asst. Paleont., U. S. Geol. Survey, Smithsonian Institution, Washington, D. C. (37).
Harris, I. H., Waynesville, Warren Co., Ohio (30). E H
Harris, Mrs. Robert, Buckingham Hotel, New York, N. Y. (36).
Harrison, Edwin, 520 Olive St., Room 620, St. Louis, Mo. (11). E
Harrison, George B., 520 E. Mulberry St., Bloomington, Ill. (29). E
Harshmann, W. S., Nautical Almanac Office, Washington, D. C. (40).
Hart, C. Porter, M.D., Wyoming, Hamilton Co., Ohio (30). F
Hart, Rev. Prof. Samuel, Trinity College, Hartford, Conn. (22). A
Hartigan, Prof. James W., Morgantown, W. Va. (38). F
Harvey, A. F., Kirkwood, Mo. (40).
Harvey, Chas. W., 128 West Vermont St., Indianapolis, Ind. (20).
Hasbrouck, Edwin M., 1610 15th St., Washington, D. C. (40).
Haskell, Eugene E., U. S. C. and G Survey, Washington, D. C. (39) A B D
Hasse, Hermann E., Santa Monica, Los Angeles Co., Cal. (33). F
Hasskarl, G. C. H., Ph.D., Frederick City, Md. (38).
Hastings, Charles W., The Western Engineering Co., 503 Delaware St., Kansas City, Mo. (38).
Hastings, John B., Ketchum, Alturas Co., Idaho (38). E
Hatch, John W., Normal and Agricultural Inst., Hampton, Va. (40).
Hathaway, Nath'l, New Bedford, Mass. (30). C
Hawen, Franklin, jr., New England Trust Co., Boston, Mass. (29).

Hawley, John Blackstock, 302 Drake Block, St. Paul, Minn. (38). B C D
Hay, Robert, Box 162, Junction City, Kan. (36). E
Hayden, Everett, Lt U. S. N., Hydrographic Office, Navy Dept., Washington, D. C. (40).
Hayes, Richard, 700 Chestnut St., St. Louis, Mo. (27). A B
Hays, Dr. Franklin W., Indianapolis, Ind. (39). F
Haywood, Prof. John, Ottetbein Univ., Westerville, Ohio (30). A B
Hazen, Henry Allen, P. O. Box 427, Washington, D. C. (33). B
Head, W. R., 5467 Jefferson Ave., Hyde Park, Chicago, Ill. (38). E
Hedge, Fred. H., jr., Public Library, Lawrence, Mass. (28). F H
Hedges, Sidney M., 178 Devonshire St., Boston, Mass. (29).
Hedrick, Henry B., A.B., Nautical Almanac Office, Washington, D. C. (40).
Henderson, C. Hanford, Manual Training School, Philadelphia, Pa. (33). E C B
Hendricks, Henry H., 49 Cliff St., New York, N. Y. (30).
Herndon, J. H., Tyler, Smith Co., Texas (38). C E
Hertzberg, Prof. Constantine, 181 S. Oxford St., Brooklyn, N.Y. (29). B F
Hester, W. A., Owensborough, Ky. (39). F
HEXAMER, C. JOHN, C.E., 419 Walnut St., Philadelphia, Pa. (33). C B
Heyer, Wm. D., 101 Pearl St., Elizabeth, N. J. (33). B D
Hibbard, C. M., Canton, Mo. (39).
Hicks, Geo. E., Great Neck, Long Island, N. Y. (36).
Hicks, John S., Roslyn, N. Y. (31). I
Hill, Frank A. (37).
Hill, Geo. Wm., Dept. of Agric., Washington, D. C. (40). I
Hinds, Clara Bliss, M.D., 1331 N St., Washington, D. C. (40). H
Hinton, John H., M.D., 41 West 32nd St., New York, N. Y. (29). F H
Hinton, Richard J., Dept. of Agric., Washington, D. C. (40). I
Hitchcock, Albert Spear, Missouri Botanical Garden, St. Louis, Mo. (39). F
Hitchcock, Miss Fanny R. M., 41 W. 73d St., New York, N. Y. (35). F
Hitchcock, Hiram, Fifth Ave. Hotel, New York, N. Y. (36).
Hoadley, Geo. A., A.M., Swarthmore College, Swarthmore, Pa. (40).
HOCKLEY, THOS., 235 S. 21st St., Philadelphia, Pa. (33). I
Hodge, J. M., Big Stone Gap, Va. (29). D E
Hodges, Julia, 139 W. 41st St., New York, N. Y. (36). E F H
Hodgkins, Prof. H. L., Columbian University, Washington, D. C. (40). E H
HOE, MRS. R., JR., 11 E. 36th St., New York, N. Y. (36).
Hoe, Mrs. Richard M., 1 E. 69th St., New York, N. Y. (36).
Hoeltge, Dr. A., 322 Lime St., Cincinnati, Ohio (30).
Hoffman, The Rev. Eugene Aug., D.D., Dean of Gen. Theol. Seminary, 426 W. 23d St., New York, N. Y. (36).
Hogsett, John J., Danville, Ky. (39). A B D
Holbrook, Levi, P. O. Box 536, New York, N. Y. (33). E
Holden, Albert Fairchild, The Hollenden, Cleveland, Ohio (37).
Holden, L. E., The Hollenden, Cleveland, Ohio (32).

HOLDEN, MRS. L. E., The Hollenden, Cleveland, Ohio (35).
Holland, Rev. W J., D.D., Ph.D , Pittsburgh, Pa. (37). F
Holley, George W., Ithaca, N. Y. (19). B I
Hollick, Arthur, Box 105, New Brighton, Staten Island, N. Y. (31). F E
Hollingsworth, Jno. E., Austin, Texas (40).
Hollinshead, William H., Vanderbilt Univ., Nashville, Tenn. (37).
Holm, Theodor, U. S. National Museum, Washington, D. C. (40). F
Holmes, W. Newton, Pritchett School Inst., Glasgow, Mo. (36).
Holstein, Geo. Wolf, Albany, Shackelford Co., Texas (28). E H
Holt, Henry, 12 East 23d St., New York, N. Y. (29).
Homburg, Frederick, 40 Clifton Ave., Cincinnati, Ohio (39). C
Homer, Chas. S., jr., of Valentine & Co., 245 Broadway, New York, N. Y. (29).
Hood, E. Lyman, Albuquerque, N. M. (30). F I
Hood, Gilbert E., Lawrence, Mass. (29). H E B
Hood, William, 512 Van Ness Ave., San Francisco, Cal. (35). D
Hooper, Dr. F. H., 460 County, cor. William St., New Bedford, Mass. (29).
Hooper, Josephus, M.D., Louisville, Ky. (39).
Hooper, Wm. DeM., Actuary, 467 No. Meridian St., Indianapolis, Ind. (39).
Hooper, Wm. Leslie, College Hill, Mass. (33). B D
Hoover, Prof. William, Athens, Ohio (34). A
Hopkins, Howard H., M.D., New Market, Frederick Co., Md. (40). F
Hopkins, Thos. C., Leland Stanford jr. Univ., Menlo Park, Cal. (38). E
Horr, Asa, M.D., 1311 Main St., Dubuque, Iowa (21). B E
Horton, Horace E. L., Ass't Chem. Dept. of Agric., Washington, D. C. (40).
Hoskins, William, La Grange, Cook Co., Ill. (34). C
Hough, Romeyn B., Lowville, N. Y. (37).
Houser, James A., M.D., 124 Fletcher Ave., Indianapolis, Ind. (39). F
Houston, Wm., M.A., Ontario Government Library, Toronto, Ontario, Can. (38). I
Hovey, Edmund O., Waterbury, Conn. (36). C E
Howard, Prof. Curtis C., 115 Jefferson Ave., Columbus, Ohio (38). C
Howell, David J., 939 F St., N. W., Washington, D. C. (40). E
Hoyt, James T., Temple Court, Beekman St., New York, N. Y. (38). A H
Hubbard, Gardiner Greene, 1328 Conn. Ave., Washington, D. C. (40). E
Hubbard, George W., M.D., Nashville, Tenn. (26). F
Hudson, George H., Plattsburgh, Clinton Co., N. Y. (31). F
Hugo, T. W., Duluth, Minn. (33). D
Huling, Ray G., New Bedford, Mass. (31). H
Hume, Alfred, C. E., University, Miss. (39). A
Hume, James Gibson, B.A., 16 Maitland St., Toronto, Ontario, Can. (38). I
Humphrey, D., M.D., Lawrence, Mass. (18). F H
Humphreys, A. W., Box 1384, New York, N. Y. (20). A I
Hunt, Richard M., Tribune Bld., 154 Nassau St., New York, N. Y. (36).
Hunt, Miss Sarah E., Salem, Mass. (20).
Hunter, Andrew Frederick, Barrie, Ontario, Can. (38). B H I

Huntington, Prof. Chester, P. O. Box 1780, New York, N. Y. (26). B D.
Hurd, E. O., Plainville, Hamilton Co., Ohio (30). E F
Hussey, Wm. J., Leland Stanford jr. Univ., Menlo Park, Cal. (39). A
Husted, Dr. Nathaniel C., Tarrytown-on-Hudson, N. Y. (36). E
Huston, Henry A., LaFayette, Ind. (37). C
Hutchinson, E. S., Mayberry, W. Va. (33). E B
Hutchinson, Wm. M., M.D., 207 Clinton St., Brooklyn, N. Y. (40). C B

Iden, Prof. Thomas M., Irvington, Ind. (39).
Iles, George, 7 Brunswick St., Montreal, Can. (31). I
Ingalls, Jas. M., Capt. 1st Art'y, U. S. A., Fortress Monroe, Va. (35).
Ingham, Wm. A., 320 Walnut St., Philadelphia, Pa. (33). E I
Ives, James T. B., F.G.S., 2022 Oxford St., Philadelphia, Pa. (37). E

Jackson, Prof. Josiah, State College, Centre Co., Pa. (35). A
Jackson, Thomas Moore, C.E., Morgantown, W. Va. (38).
Jacoby, Henry S., in charge of Bridge Engineering and Graphics, College of Civil Eng., Cornell Univ., Ithaca, N. Y. (36). D
James, Bushrod W., M.D., N. E. cor. 18th and Green Sts., Philadelphia, Pa. (29). F
James, Davis L., 131 West 7th St., Cincinnati, Ohio (30). F
James, Henry, M.D., 192 Spadina Ave., Toronto, Ontario, Can. (29). C F
James, John N., U. S. Naval Observ., Washington, D. C. (40). B
Janes, Simeon H., M.A., Toronto, Ontario, Can. (38). A E
Janney, Reynold, Chillicothe, Ohio (30). B A
Jefferis, Wm. W., 1836 Green St., Philadelphia, Pa. (33). E
Jenks, Wm. H., Brookville, Pa. (38).
Jennings, W. T., Chief Eng. Can. Pacific R'way, Toronto, Ontario, Canada (38).
Jesunofsky, Lewis N., U. S. Weather Bureau, Charleston, S. C. (36). B
John, J. P. D., D.D., Greencastle, Ind. (39).
Johnson, Arnold Burges, Chief Clerk Light House Board, Washington, D. C. (35). B F I
Johnson, Dr. Henry L. E., 1400 L St., N. W., Washington, D. C. (40). F
Johnson, Lorenzo N., Ann Arbor, Mich. (39). F
Johnson, Willard D., U. S. Geol. Survey, Washington, D. C. (37).
Jones, David Phillips, Chief Engineer U. S. Navy, U. S. N. Training Station, Newport, R. I. (35). D
Jones, L. H., Indianapolis, Ind. (39).
Jones, Prof. Marcus E., Salt Lake City, Utah (40).
Jones, Paul M., M.S., Nashville, Tenn. (40) E F
Jones, Prof. Richard W., Univ. P. O., Lafayette Co., Miss. (25). C B
Jones, William S., 109 Huron St., Cleveland, Ohio (37).

Kedzie, John H., Evanston, Ill. (34). B
Keep, Wm. J., Detroit, Mich. (37).

Keffer, Frederic, 64 West 9th Ave., Columbus, Ohio (37).
Kelley, Henry S., 208 Wooster St., New Haven, Conn. (36). D C
Kellogg, David S., M.D., Plattsburgh, N. Y. (29). H
Kellogg, George, 744 Broadway, New York, N. Y. (36).
Kellogg, James H., 83 Meigs St., Rochester, N. Y. (29). I
Kellogg, John H , M.D., Battle Creek, Mich. (24). F
Kelsey, Russell C., M.D., Indianapolis, Ind. (39). H
Kemper, Dr. And. C., 101 Broadway, Cincinnati, Ohio (30). F H C E I D B A
Kendall, H. D., M.D., Grand Rapids, Mich. (35). F
Kennedy, Dr. George Golding, Roxbury, Mass. (40). F
Kennedy, Prof. George T., Kings College, Windsor, N. S. (29). E C
Kennedy, Harris, Roxbury, Mass. (40) E F
Kennedy, William, Geol. Survey of Arkansas, Little Rock, Ark. (38). E H
Kern, Josiah Quincy, Ph.D., Treasury Dept., Washington, D. C. (40). I
Keys, David Reid, B.A., University Coll., Toronto, Ontario, Can. (38). H
Kidd, G. W., Houston, Texas (37).
Kilborne, Dr. Fred L., Dept. of Agric., Washington, D. C. (40).
Kinder, Miss Sarah A., 27 Lockerbie St., Indianapolis, Ind. (39).
King, A. F. A., M.D., 1315 Mass. Ave., N. W., Washington, D. C. (29). F H
King, Miss Ada M., Rochester, N. Y. (39). E I
King, Charles F., Steelton, Pa. (33). C E
King, F. H., Experiment Station, Madison, Wis. (32). E F
King, Miss Harriet M., Salem, Mass. (28).
King, Mrs. Mary B. A., 31 Madison St., Rochester, N. Y. (15). F H
King, W. M., Dept. of Agriculture, Washington, D. C. (37).
King, Wm. R., Director Honduras Botanical Gardens, Patuca, Republic of Honduras, "via Truxillo" (40). F
Kinner, Hugo, M.D., 1517 South Seventh St., St. Louis, Mo. (21). F H
Kinyoun, Joseph J., M.D., U. S. Marine Hospital Service, Washington, D. C. (40). F
Kirchmaier, G. A., Ph.C., cor. Adams and Huron Sts., Toledo, Ohio (37).
Kirk, Hyland C., 718 Broadway, New York, N. Y. (40). B F H
Kittredge, Miss H. A., North Andover, Mass. (37). F
Klie, G. H. Carl, 5100 No. Broadway, St. Louis, Mo. (39). C F
Knickerbacker, John, C.E., Troy, N. Y. (36).
Knight, Albert B., P. O. Box 211, Butte City, Silver Bow Co., Montana (36). D
Knight, Chas. H., M.D., 20 W. 31st St., New York, N. Y. (36).
Knight, Prof. Charles M., 219 So. Union St., Akron, Ohio (29). C B
Knorr, Aug. E., 1109 14th St., N.W., Washington, D. C. (40). C
Knowlton, Frank H., Dep't of Botany, U. S. National Museum, Washington, D. C. (33). F
Knox, Wilm, 26 Madison Park, Chicago, Ill. (38).
Kober, Geo. Martin, M.D., 1819 Q St., N. W., Washington, D. C. (40). H
Kocherspergee, Miss Nellie, 934 Kurtz St., Philadelphia, Pa. (40).
Kost, John, LL.D., Tiffin, Ohio (34). E

Krug, Wm. H., Ass't Chem. Dept. of Agric., Washington, D. C. (40).
Kubel, S. J., U. S. Geol. Survey, Washington, D. C. (40).
Kuhne, F. W., 19 Court St., Fort Wayne, Ind. (38). A F

Lacoe, R. D., Pittston, Pa. (31). E F
Ladd, G. E., Bradford, Mass. (39). E
Lamb, Daniel S., M D., 800 10th St., N. W., Washington, D. C. (40) H
Lamborn, Robert H., Ph.D., 32 Nassau St., New York, N. Y. (28). H E F
Lampard, Henry, 102 Shuter St., Montreal, Can. (40).
Landero, Carlos F. de, P O. Box 34, Guadalajara, Mexico (36). C B
Langenbeck, Karl, 27 Orchard St., Zanesville, Ohio (39). C
Langmann, Gustav, M.D., 115 W. 57th St., New York, N. Y. (36).
Lasché, Alfred, 688 W. Chicago Ave., Chicago, Ill. (39). C F
Latham, Miss Vida Annette, F.R.M.S., 58 E. University St., Ann Arbor, Mich. (39).
Latta, Prof. William C., LaFayette, Ind. (37).
Laws, Miss Annie, 100 Dayton St., Cincinnati, Ohio (30). I
Lawson, Dr. Andrew C., Geological Survey of Can., Ottawa, Ontario, Can. (38).
Leach, Hamilton E., M.D., 716 13th St., N.W., Washington, D. C. (40).
Le Comte, Jos., 216 Front St., New York, N. Y. (36).
Ledyard, T. D., 57 Colborne St., Room 3, Toronto, Ontario, Can. (38).
Lee, Wm., M.D., 2111 Penna. Avenue, N. W., Washington, D. C. (29).
Lee, Mrs. William, care Lee & Shepard, 10 Milk St., Boston, Mass. (36).
Leete, James M., M.D., 2912 Washington Ave., St. Louis, Mo. (27).
Leiter, L. Z., 1500 20th St., Washington, D. C. (40).
Lemp, William J., cor. Cherokee and 2nd Carondelet Avenue, St. Louis, Mo. (27).
Lennon, William H., Brockport, N. Y. (31). F C
Leonard, Miss Georgia L., Brightwood, D. C. (40). H
Leoser, Charles McK., 34 Beaver St., New York, N. Y. (32). A
Leslie, Geo. L , Box 515, Santa Barbara, Cal. (40).
Letchworth, Josiah, Buffalo, N. Y. (25).
Lewis, Elias, jr., 111 St. Mark's Ave., Brooklyn, N. Y. (23). E H
Lewis, John E., Ansonia, Conn. (40). A B E
Lewis, Wm. J., M.D., 30 Gillett St., Hartford, Conn. (33). F E
Liebig, Dr. G. A., 26 South St., Baltimore, Md. (30).
Lilley, Geo., LL.D , Brookings, So. Dakota (40). A I
Lincoln, Nathan S., M.D., 1514 H St., N.W., Washington, D. C. (40).
Lindahl, Josua, Ph.D., State Geologist, Springfield, Ill. (40). F E
Lindenkohl, Adolphus, U. S. Coast and Geodetic Survey, Washington, D. C. (40). E
Line, J. Edw., D.D.S., 50 Rowley St., Rochester, N. Y. (39). F
Livermore, Mrs. M. A. C., 24 North Avenue, Cambridge, Mass. (29). F
Livermore, Wm. R., Maj of Eng. U. S. A., P. O. Building, Boston. Mass. (38). C
Logan, Walter S., 58 William St., New York, N. Y. (36).

Lomb, Carl F., Rochester, N. Y. (29).
Lord, Benjamin, 34 W. 28th St., New York, N. Y. (36).
Lowell, Aug., 60 State St., Boston, Mass. (29).
Lowell, Percival, 40 Water St., Boston, Mass. (36). A
Lowman, John H., M.D., 345 Prospect St., Cleveland, Ohio (37).
Lowman, Oscar, Ph.D., 185 Jefferson Ave., Detroit, Mich. (39). C
Lucas, John, 141 N. 4th St., Philadelphia, Pa. (33). C
Lucas, Mrs. John, 1913 Arch St., Philadelphia, Pa. (33). I D
Ludlow, Wm., Bv't Lt. Col. U. S A., U. S. Light House Eng., 9th and 11th Districts, Detroit. Mich. (33). D B
Lufkin, Albert, Newton, Iowa (31). D E
Lummis, Wm., 3 Broad St., Drexel Building, New York, N. Y. (36).
Lusk, James T. (37). F H
Lyford, Edwin F., Springfield, Mass. (33). B C H
LYMAN, BENJ. SMITH, 708 Locust St., Philadelphia, Pa. (15). E
Lyman, Henry H., 74 McTavish St., Montreal, P. Q., Can. (29). F E I
Lyon, James, 477 N. Penn St., Indianapolis, Ind. (39). H

McAdie, Alexander George, U. S. Weather Bureau, Washington, D. C. (40).
McAndrew, George J., Plattsburgh, N. Y. (40). H
MacArthur, Charles L., Troy, N. Y. (39).
McCammon, Gen. Joseph K., 1420 F St., Washington, D. C. (40).
McClellan, E. S., M.D., 245 Ninth Ave., New York, N. Y. (39). I
McClintock, A. H., Wilkes Barre, Pa. (33). H
McClintock, Charles T., Lexington, Ky. (39). F
McCorkle, Spencer C., Ass't U. S. Coast and G. Survey, Sub-office, Philadelphia, Pa. (33). A E
McCowen, Dr. Jennie, Davenport, Iowa (39).
McCulloch, C. C., jr., Univ. of Va., Charlottesville, Va. (39). E
McCurdy, Chas. W., M.Sc., Winona, Minn. (35). F E
McDonnell, Prof. Henry B., College Park, Md. (40). C
McDougall, Judge Jos. E., Toronto, Ontario, Can. (38).
McElroy, K. P., 2nd Ass't Chem. Div., Dept. of Agric., Washington, D. C. (40).
McFadden, Prof. L. H., Westerville, Ohio (32). B C
McFarland, Robert W., LL.D., Oxford, Ohio (33). A
McGee, Mrs. Anita Newcomb, U. S. Geological Survey, Washington, D. C. (37). H
McGee, Miss Emma R., Farley, Iowa (33). H
McGee, W. L., Agricultural College, Miss. (40). F
McGobrick, James, Duluth, Minn. (32).
McGowan, Rev. Chas. E., M.D., Montville, Conn. (38). E
McGregory, Prof. J. F., Hamilton, N. Y. (35).
McHenry, Prof. B. F., Union Christian College, Merom, Ind. (39). A
McInnis, Prof. Louis L., College Station, Texas (31). A D B I
McKay, Alexander Chas., Upper Canada College, Toronto, Ontario, Can. (38). B

McKeever, Chauncey, Brig. Gen. U. S. Army, Adj. General's Office, Washington, D. C. (40).
MacKenzie, John J., Univ. College, Toronto, Ontario, Can. (37).
McLean, Rev. John, Moosejaw, Assiniboia, Can. (38).
McLean, T. C., Lieut. U. S. N., Torpedo Station, Newport, R. I. (33).
McMillan, Smith B., Signal, Columbiana Co., Ohio (37).
McMillin, Emerson, Columbus, Ohio (37).
McNeal, Albert T., Bolivar, Tenn. (26). I
MacVicar, Malcolm, MacMaster Hall, Toronto, Ontario, Can. (38).
McWhorter, Tyler, Aledo, Ill. (20). E
Macallum, Archibald B., University College, Toronto, Ontario, Can. (38). F
Macdougall, Alan, 30 Adelaide St., East, Toronto, Ontario, Can. (38). D H I
Macfarlane, Dr. John M., Lansdowne, Del. Co., Pa. (41). F
Magruder, Wm. T., Vanderbilt Univ., Nashville, Tenn. (37).
Maguire, Franck Z., 18 Wall St., New York, N. Y. (33). I H
Mallinckrodt, Edw., P. O. Sub-station A, St. Louis, Mo. (29). C
Mallory, Maitland L., M.D., 69 North Fitzhugh St, Rochester, N. Y. (39). F
Mann, Abram S., Rochester, N. Y. (39). E
Manning, Charles H., U. S. N., Manchester, N. H. (35). D
Manning, Miss Sara M., Lake City, Minn. (33). F
Manning, Warren H., Brookline, Mass. (31). F H E
Mapes, Charles Victor, 60 W. 40th St., New York, N. Y. (37). C
MARBLE, MANTON, 532 Fifth Ave., New York, N. Y. (36).
Marble, J. Russel, Worcester, Mass. (31). C E
Marble, Miss Sarah, Woonsocket, R. I. (29). C
Marindin, Henry Louis, U. S. Coast and Geodetic Survey, Washington, D. C. (40). E
Mark, Prof. E H., Louisville, Ky. (39). B
Markley, Joseph L., Ph.D., Ann Arbor, Mich. (40).
Marlatt, Charles L., 1519 Rhode Island Ave., N. W., Washington, D. C. (40). F
Marmion, William Vincent, M.D., 1108 F St., N.W., Washington, D. C. (40).
Marple, Charles A., 717 W. Chestnut St., Louisville, Ky. (39). B
Marsden, Samuel, 1015 North Leffenwell Ave., St. Louis, Mo. (27). A D
Marsh, Prof. C. Dwight, Ripon, Wis. (34). F E
Marvin, C. F., Signal Office, Washington, D. C. (39). B
Marvin, Frank O., Univ. of Kansas, Lawrence, Kansas (35). D
Mateer, Horace N., M.D., Wooster, Wayne Co., Ohio (36). F E
Mathieu, Jean Anton, North East, Cecil Co., Md. (33). C I
Matlack, Charles, 625 Walnut St., Philadelphia, Pa. (27). I
Mattison, Joseph G., 20 West 14th St., New York, N. Y. (30). C
Maxwell, Walter, Dept. of Agriculture, Washington, D.C. (40). C

May, John J., Box 2348, Boston, Mass. (29). D I
Maynard, Geo. C., 1227 19th St., Washington, D. C. (35). B D
Maynard, Geo. W., 35 Broadway, New York, N. Y. (33). C E
Maynard, Prof. Samuel T., Agricultural College, Amherst, Mass. (38).
Maynard, Washburn, Lieut. Com'd U. S. N., Bureau of Ordnance, Navy Dep't, Washington, D. C. (33). B
Mead, Walter H., 65 Wall St., New York, N. Y. (29). F E
Means, John H., Geol. Survey, Little Rock, Ark. (38). E
Meehan, Mrs. Thos., Germantown, Pa. (29).
Mell, Prof P. H., Polytechnic Inst., Auburn, Ala. (39). E
Mellor, Chas. C., 77 Fifth Ave., Pittsburgh, Pa. (38).
Merrick, Hon. Edwin T., P. O Box 606, New Orleans, La. (29). E A
Merrill, Mrs. Winifred Edgerton, Ph.B., 2 Sprague Place, Albany, N. Y. (35). A
Merritt, George, Indianapolis, Ind. (39). I
Merritt, Wm. Hamilton, 40 St. George St., Toronto, Ontario, Can. (38). E I
Merritt, Worth, 411 W. Washington St., Indianapolis, Ind. (39). I
Merryweather, George N., cor. 6th and Race Sts., Cincinnati, Ohio (30). F H
Merwin, Orange, Bridgeport, Conn. (38). E
METCALF, ORLANDO, Vice President Colorado Mid. R. R. Co., Colorado Springs, Col. (35). D
Metcalf, William, Pittsburgh, Pa. (33).
Meyncke, O. M., Brookville, Ind. (39). F
Miller, Clifford N., 604 Greenup St., Covington, Ky. (37). D
MILLER, EDGAR G., 213 E. German St., Baltimore, Md. (29). E F A
Miller, John A., 2500 Park Ave., Cairo, Ill. (22). D
Mills, Andrew G., Cotton Exchange, Galveston, Texas (33). I
Mills, James, M.A., Guelph, Ontario, Can. (31). I C
Millspaugh, C. F., M.D., Morgantown, W. Va. (40.) F
Mindeleff, Cosmos, Bureau of Ethnology, Washington, D. C. (38). H
Mindeleff, Mrs. Julie, 1401 Stoughton St., Washington, D. C. (40).
Minns, Miss S., 14 Louisburg Square, Boston, Mass. (32).
Mitivier, Dr. M. M., 206 High St., Holyoke, Mass. (40).
Mitting, Ebenezer K., 423 Superior St., Chicago, Ill. (40).
Mixer, Fred. K., 427 Delaware Ave., Buffalo, N. Y. (35). E
Mohr, Dr. Charles, Mobile, Ala. (40).
Moler, Geo. S., 106 University Ave., Ithaca, N. Y. (38).
Molson, John H. R., Montreal, P. Q., Can. (31).
Montgomery, Prof. Henry, Salt Lake City, Utah (29). F E
Montgomery, Prof. J. H., Meadville, Pa. (39). B
Moody, Mrs. Mary B., M.D., Fair Haven Heights, New Haven, Conn. (25). E F
Moody, Robert O., Fair Haven Heights, New Haven, Conn. (35).
Moore, Geo. D., Ph.D., Polytechnic Inst., Worcester, Mass. (40).
Moore, Joseph, LL.D., Earlham College, Richmond, Ind. (39).

Moore, Veranus A., M.D., Bureau of Animal Industry, Dept. of Agric., Washington, D. C. (40). F
Moran, Jno. F., M.D., 2420 Pennsylvania Ave., N. W., Washington, D. C. (40).
Morgan, Wm. F., 171 Madison Ave., New York, N. Y. (27).
Morrill, Prof. A. D., Athens, Ohio (37).
Morse, Mrs. Mary J., 57 Jackson St., Lawrence, Mass. (29). C
Mortimer, Capt. John H., care of Alex. Campbell & Co., 26 Pine St., New York, N. Y. (31).
Moseley, Edwin L., A. M., High School, Sandusky, Ohio (34).
Moss, Mrs. J. Osborne, Sandusky, Ohio (35). F
Mowry, Wm. A., 97 Federal St , Salem, Mass. (29). I
Muir, John, Martinez, Cal. (22).
Mulford, A. Isabel, 113 Oakwood Ave., Orange, N. J. (38). F
Müller, Jno, M.D., 34 Jerubrogatan Upsala, Sweden (34) H F I
Murphy, Edward, M.D., New Harmony, Ind. (39). C
Murphy, Dr. Patrick J.(30). B A

Nagle, James C., 145 44th St., Pittsburgh, Pa. (40). D B
Naylor, Prof. J. P., Univ. of Indiana, Bloomington, Ind. (36).
Neff, Peter, 132 Huron St., Cleveland, Ohio (37).
Neff, Peter, jr., 132 Huron St., Cleveland, Ohio (34). B
Nelson, Wolfred, C.M., M.D., 1 Gramercy Park, New York, N. Y. (35). H E
Nesmith, Henry E., jr., 28 South St., New York, N. Y. (30). B F C
Nettleton, Chas., 115 Broadway, New York, N. Y. (30). H E F
Neumoegen, Berthold, Box 2581, New York, N. Y. (40). F
Newell, F. H., U. S. Geol. Survey, Washington, D. C. (40).
Newton, Rev. John, Pensacola, Fla. (7). A-I
Nichols, A. B., Rosemont, Pa. (33). D
Nichols, Austin P., 4 Highland Ave., Haverhill, Mass. (37).
Nimmo, Miss Mary P., 922 15th St., McPherson Square, Washington, D. C. (40). H I
Noble, R. W. P., Indianapolis, Ind. (39). C
Northrop, Dr. Katharine, 309 S. 15th St., Philadelphia, Pa. (35). F
Norton, Prof. Wm. H., Mt. Vernon, Iowa (39). E
Notestein, Prof. Frank N., The College of Montana, Deer Lodge, Montana (38). A F
Nunn, R. J., 119 York St., Savannah, Ga. (33).
Nutting, Prof. Charles C., State Univ. of Iowa, Iowa City, Iowa (40).

O'Hara, Michael, M.D., 31 South 16th St., Philadelphia, Pa. (33). F
Olds, Prof. George D., Amherst, Mass. (38). A
Oliver, Jos. Giammusso, Mining Engineer, Racalmuto, Sicily (39).
Orleman, Miss Daisy M., M.D., 808 E. Capitol St., Washington, D. C. (40). B C F
Orm, John, Paducah, McCracken Co., Ky. (27). D

Orr, William, jr., 133 Catharine St., Springfield, Mass. (39). F B
Osborn, Francis A., 43 Milk St., Boston, Mass. (29).
Osborne, Mrs. Ada M., Waterville, Oneida Co., N. Y. (19). E
Osborne, Amos O., Waterville, Oneida Co., N. Y. (19). E
Osgood, Joseph B. F., Salem, Mass. (31).
O'Sullivan, Rev. Denis, Woodstock, Md. (40). B A
Oviatt, David B., Georgia School of Technology, Atlanta, Ga. (40). D
Owen, Prof. D. A., Franklin, Ind. (34). E
Oyster, Dr. J. H., Paola, Kan. (34). F

Page, Dr. D. L., 46 Merrimack St., Lowell, Mass. (33). F
Paine, Sidney B., Edison Electric Light Co., Boston, Mass. (30). D B
Palmer, Dr. Edward, care Dr. Geo. Vasey, Dep't of Agric., Washington, D. C. (22). H
Pammel, Prof. L. H., Iowa Agric. College, Ames, Iowa (39).
Pardee, Walter S., Minneapolis, Minn. (32).
Pardo, Carlos, 150 Fifth Ave., New York, N. Y. (36). A
Parker, Alexander Tennant, Lexington, Ky. (37).
Parker, J. D., Chaplain, San Diego, Cal. (34). H
Parks, Prof. R. M., Bedford, Ind. (39). C
Parks, Prof. William B., Thorp's Spring, Hood Co., Texas. (40). E F
PARSONS, JNO. E (36).
Patton, Horace B., Houghton, Mich. (37). E
Paul, Caroline A., M.D., Vineland, Cumberland Co., N. J. (23).
Payne, Frank Fitz, Meteorological Office, Toronto, Ontario, Can. (38).
Peale, Albert C., M.D., U. S. Geol. Survey, Washington, D. C. (36). E
Pearce, James H., 226 Beverly St., Toronto, Ontario, Can. (38). F
Peary, Robert E., C.E., U. S. N., United States Navy Yard, League Island, Philadelphia, Pa. (36). D
Peck, Mrs. Emma J., 185 W. Chester Park, Boston, Mass. (40).
Peck, Mrs. John H., 3 Irving Place, Troy, N. Y. (28).
Peck, W. A., C.E., 1051 Clarkson St., Denver, Col. (19). E
Peckham, Wheeler H., Drexel Building, Wall St., New York, N. Y. (36).
Pedrick, Mrs. Wm. R., Lawrence, Mass. (33).
Peffer, George P., Pewaukee, Wis. (32). D I
Peirce, Cyrus N., D.D.S., 1415 Walnut St., Philadelphia, Pa. (31). F
Peirce, Harold, 331 Walnut St., Philadelphia, Pa. (33). H I
Pell, Alfred, Highland Falls, N. Y. (36).
Pendleton, Dr. Hunter, Lexington, Va. (40).
PERKINS, ARTHUR, 14 State St., Hartford, Conn. (31). B A
Perrin, John, care W. McGibbon, Mount Royal Park, Montreal, P. Q. (38)
Perrine, Fred. A. C., A.B., Trenton, N. J. (33). B A
Peters, Mrs. Bernard, 83 Lee Ave., Brooklyn, N. Y. (36).
Peters, Geo. H., Hartford, Conn. (38).
Petitdidier, O. L., Mt. Carmel, Ill. (39). A B D
Pettee, Prof. C. H., Hanover, N. H. (31). A
Pettee, Rev. J. T., Meriden, Conn. (39).

Pefeiffer, Geo. B., Westwood, Prince George Co., Md. (40). B C
Phelps, George, Nashua, N. H. (31).
Phillips, Prof. A. E., La Fayette, Ind. (39). D
Phillips, W. Hallett, 603 Louisiana Ave., Washington, D. C. (40). H
Picket, H. E., 241 N. Delaware St., Indianapolis, Ind. (39). B C
Pickett, Dr. Thos. E., Maysville, Mason Co., Ky. (25). H F
Pierce, Josiah, jr., 806 17th St., Washington, D. C. (40) E
Pierce, Perry Benj., U. S. Patent Office, Washington, D. C. (40). H
Pike, J. W., Mahoning, Portage Co., Ohio (29). E C F
Pilling, J. W., 1301 Mass. Ave., Washington, D. C. (40).
Pillsbury, J. E., Lieut. U. S. N., 225 Commonwealth Ave., Boston, Mass. (33). E B
Pinkerton, T. H., M.D., P. O. Box 11, Oakland, Alameda Co., Cal. (27).
Pitkin, Lucius, 138 Pearl St., New York, N. Y. (29).
Pitt, Prof. William H, 2 Arlington Place, Buffalo, N. Y (25).
Place, Edwin, Terre Haute, Ind. (33). B
Pope, Edward S., 235 Blackford St., Indianapolis, Ind. (39).
Porteous, John, 176 Falmouth St., Boston, Mass. (22).
Post, Prof. Charles M., Alfred Centre, N. Y. (39). B
Poteat, Prof. William L., Wake Forest, N. C. (40). F
Potter, Rev. Henry C., 804 Broadway, New York, N. Y. (29).
Potter, Jotham, 104 Euclid Ave., Cleveland, Ohio (33). B D
POTTER, O. B., 26 Lafayette Place, New York, N. Y. (36).
Potts, Alfred F., Indianapolis, Ind. (39).
Prang, Louis, 45 Centre St., Roxbury, Mass. (29). D
Pray, Thomas, jr., P. O. Box 2728, Boston, Mass. (33). F D
Preswick, E. H., Forest Home, N. Y. (35). C
Price, J. Sergeant, 709 Walnut St., Philadelphia, Pa. (33).
Priest, Geo. A., Census Office, Washington, D. C. (40).
Prince, Gen. Henry, U. S. A., Fitchburg, Mass. (22).
Prosser, Col. Wm. F., North Yakima, Yakima Co., Washington (26). E I
PRUYN, JOHN V. L., JR., Albany, N. Y. (29).
Pulsifer, Mrs. C. L. B., Newton Centre, Mass. (33).
Purinton, Prof. George D., Columbia, Mo. (31). C F
Putnam, Chas. P., M.D., 63 Marlborough St., Boston, Mass. (28).

Quick, Prof. Walter J., Fort Collins, Col. (40).
Quinche, Miss Helen M., Columbus, Miss. (40). C
Quinn, James Cochrane, Ph.D., Helena, Montana (33). E F H I

Raenber, Edward G., 688 W. Chicago Ave., Chicago, Ill. (39). C F
Rand, C. F., M.D., 1228 15th St., N. W., Washington, D. C. (27). E H
Randolph, L. S., Engineer of Tests, B. & O. R. R. Co., Baltimore, Md. (33). D
Rathbun, Richard, U. S. National Museum, Washington, D. C. (40). F
Ray, P. H., Capt. U. S. Army, Omaha, Nebraska (40).

Read, Edmund E., jr., 604 Cooper St., Camden, N. J. (39). A B
Read, Matthew C., Hudson, Ohio (36).
Reber, Prof. Louis E., State College, Centre Co., Pa. (35). D
Redding, Prof. Allen C., Findlay, Ohio (39). C
Reed, Charles J., 224 High St., Orange, N. J. (34). C B
Reed, Taylor, Princeton, N. J. (38). A
Reese, Charles L., 1801 Linden Ave., Baltimore, Md. (39). C
Reid, Prof. Henry F., Case School Applied Science, Cleveland, Ohio (36). B
Remington, Cyrus K., 11 E. Seneca St., Buffalo, N. Y. (35). E
Renninger, John S., M.D., Marshall, Minn. (31). C F
Reyburn, Robert, M.D., 2129 F St., N. W., Washington, D. C. (33). F
Reynolds, Sheldon, Wilkes Barre, Pa. (33). H
Rich, Jacob Monroe, 50 W. 38th St., New York, N. Y. (33). B A
Rich, Michael P., 50 W. 38th St., New York, N. Y. (40).
Richardson, Tobias G., M.D., 282 Prytania St., New Orleans, La. (30). H
Ricketts, Col. R. Bruce, Wilkes Barre, Pa. (33). E
Rideout, Bates S., Norway, Me. (31). E H
Ridpath, John Clark, Greencastle, Ind. (39). H
Ries, Elias E., 430 South Broadway, Baltimore, Md. (33). B I D
Riggs, Geo. W., Ridgefield, Conn. (26). C
Riggs, Lawrason, 814 Cathedral St., Baltimore, Md. (36).
Ringueberg, Eugene N. S., M D., Lockport, N. Y. (33). E F
Ritter, Homer P., U. S. C. and G. Survey, Washington, D. C. (40).
Ritter, W. F McK., P O. Box 50, Milton, Pa. (40).
Rivera, José de (29).
Robbins, A. J., M.D., Washington, D. C. (40).
Robbins, E. P., Room 12, Apollo Building, N. W. cor. Walnut and Fifth Sts., Cincinnati, Ohio (30). D B
Roberts, Eugene H., Oxford, Miss. (38).
Roberts, Prof. Milton Josiah, 122 W. 71 St., New York, N. Y. (33). B D H
Robertson, Charles, Carlinville, Ill. (39). F
Robertson, Thomas D., Rockford, Ill. (10). E H
Robeson, Henry B., care Mills, Robeson & Smith, 34 Wall St., New York, N. Y. (29).
Robinson, Prof. Norman, Tallahassee, Florida (40).
Robinson, Prof. Otis Hall, 273 Alexander St., Rochester, N. Y. (23). B A
Rochester, DeLancey, M.D., 469 Franklin St., Buffalo, N. Y. (35). F
Rockwood, Charles G., Newark, N. J. (36).
Roessler, Franz, 73 Pine St., New York, N. Y. (39).
Rogers, Frederick J., Ithaca, N. Y. (40).
Rogers, John, Port Sandfield, Muskoka, Ontario, Can. (38). D
Rolfe, Charles W., Univ. of Illinois, Champaign, Ill. (32).
Roosevelt, Hon. Robert B., 33 Nassau St., New York, N. Y. (33). B F

ROOSEVELT, MRS. MARION T., 57 Fifth Ave., New York, N. Y. (31). H I
Rosa, Edward Bennett, Associate Prof. of Physics, Wesleyan Univ., Middletown, Conn. (39). A B
Rose, Jos. N., Ass't Botanist, Dept. of Agric., Washington, D. C. (40).
Rosebrugh, A.M., M.D., Church Street, Toronto, Ontario, Can. (38).
Rosell, Claude A. O., 1131 9th St., N. W., Washington, D. C. (40).
Ross, Denman Waldo, Ph.D., Cambridge, Mass. (29).
Rotch, A. Lawrence, Readville, Mass. (39).
Roth, Filibert, 52 Packard St., Ann Arbor, Mich. (39). F
Rowell, Chas. E., M.D., Stamford, Conn. (33). F H
Runnels, Dr. O. S., Indianapolis, Ind. (39). F
Runyan, Elmer G., Dept. of Agriculture, Washington, D. C. (40). C
Rupp, August, A.B., College of City of New York, New York, N. Y. (35).
Rupp, Philip, M.D., 63 Seventh St., New York, N. Y. (35).
Russell, A. H., Captain of Ordnance, U. S. A., 84 Huntington Ave., Boston, Mass. (38). D
Russell, Dr. Linus E., Springfield, Ohio (30).
Russell, Thomas, Signal Office, Washington, D. C. (39). B
Rust, Horatio N., Colton, San Bernardino Co., Cal. (26). H
Ryder, John A., care Univ. of Pennsylvania, Philadelphia, Pa. (33).
Ryerson, George S., 60 College Ave., Toronto, Ontario, Can. (38). F

Sabine, Wallace Clement, Harvard College, Cambridge, Mass. (39). B
Sackett, Miss Eliza D., Cranford, N. J. (35). F H
Sage, John H., Portland, Conn. (23). F
Sander, Dr. Enno, St. Louis, Mo. (27). C
Sargent, Erle Hoxsie, Medina, Ohio (37). F
Satterlee, Samuel K., P. O. Box 344, Rye, West Chester Co., N. Y. (36).
Saville, James H., Attorney-at-Law, 1419 F St., N. W., Washington, D. C. (29).
Saville, Marshall H., Peabody Museum, Cambridge, Mass. (39). H
Sawyers, Mrs. Alice M. S., 1019 Burnett St., Fort Worth, Texas (34).
Sayre, Robert H., Bethlehem, Pa. (28). D
SCHAFFER, CHAS., M.D., 1309 Arch St., Philadelphia, Pa. (29). F E
SCHAFFER, MRS. MARY TOWNSEND SHARPLESS, 1309 Arch St., Philadelphia, Pa. (38). F E
Scharar, Christian H., 2073 N. Main Ave., Scranton, Pa. (33). A D E H
SCHERMERHORN, F. AUG., 61 University Place, New York, N. Y. (36).
SCHERMERHORN, WM. C., 49 W. 23d St., New York, N. Y. (36).
Scherzer, William, 510 Home Insurance Building, Chicago, Ill. (39).
Schobinger, John J., 2101 Indiana Ave., Chicago, Ill. (34). B.
Schofield, Gen. J. M., Headquarters of the Army, Washington, D. C. (36).
Schöney, Dr. L., 68 East 104th St., New York, N. Y. (29). F
Schuette, J. H., Green Bay, Wis. (34). F E B
Schultz, Carl H., 430-440 First Ave., New York, N. Y. (29).

Schuyler, Philip N., Bellevue, Huron Co., Ohio (37).
Schwarz, E. A., U. S. Dep't of Agric., Washington, D. C. (29). F
Scott, Charles F., Westinghouse Electric Co., Pittsburgh, Pa. (34). B A
Scott, Dr. James F., Columbia Hospital, Washington, D. C. (40). F H
Scott, John B., 1520 Arch St., Philadelphia, Pa. (33). C
Scott, Martin P., M.D. (31).
Scott, W. J., M.D., 537 Prospect St., Cleveland, Ohio (37).
Scoville, S. S., M.D., Lebanon, Ohio (30). E F
Scull, Miss Sarah A., 1100 M St., Washington, D. C. (40). H
Scupham, John R., 946 Myrtle St., Oakland, Cal. (38). E
Seamon, Prof. William H., Eng., Aurora, Mo. (38).
Sellhausen, Ernest A., M.D., 640 G St., N. W., Washington, D. C. (40).
Selwyn, Alfred R. C., Director Geol. Survey of Canada, Ottawa, Ontario, Can. (38). E
Serrell, Lemuel W., 140 Nassau St., New York, N. Y. (36).
Shannon, W. P., Greensburg, Ind. (39). F
SHEAFER, A. W., Pottsville, Pa. (28).
Sheafer, Walter S., Pottsville, Pa. (25).
Shelton, Prof. Edward M., Dep't of Agric., Brisbane, Queensland, Australia (32). F
Shepherd, Elizabeth, 253 W. 128th St., New York, N. Y. (39).
Sherman, Orray Taft, 379 Harvard St., Cambridge, Mass. (39).
Shonnard, Hon. Frederic, Yonkers, N. Y. (39). E F H
Shufeldt, Dr. R. W., Smithsonian Inst., Washington, D. C. (40). F
Shultz, Charles S., Hoboken, N. J. (31). F
Shuttleworth, Edward B., Toronto, Ontario, Can. (38). C
Siebel, John E., Director Zymotechnic Inst., 242 Burling St., Chicago, Ill. (39). C B F E
Siemon, Rudolph, 191 Calhoun St., Fort Wayne, Ind. (40) A F
Sigerfoos, Charles P., Univ. of Virginia, Charlottesville, Va. (39). F H
SILVER, L. B., 19 Nottingham Block, Euclid Ave., Cleveland, Ohio (37).
Simon, Dr. Wm., 1348 Block St., Baltimore, Md. (29). C
Skinner, Aaron N., U. S. Naval Observ., Washington, D. C. (40). A
Slade, Elisha, Somerset, Bristol Co., Mass. (29). F
Slattery, M. M. M., 302 W. Washington St., Fort Wayne, Ind. (39).
Slocum, Chas. E., M.D., Defiance, Ohio (34). F
Smedley, Sam'l L., Chief Eng., City Hall, Philadelphia, Pa. (33). D
Smillie, Thomas W., U. S. National Museum, Washington, D. C. (40). F
Smith, Alex., Ph. D., Crawfordsville, Ind. (40). C
Smith, Andrew J., M.D., 66½ N. Illinois St., Indianapolis, Ind. (39).
Smith, Benj. G., 11 Fayerweather St., Cambridge, Mass. (29). I
Smith, Charles H., Drawer 19, Austin, Texas (33). D
Smith, De Cost, Skaneateles, N. Y. (38). H
Smith, D. T., M.D., Louisville, Ky. (39).
Smith, E. Reuel, Skaneateles, N. Y. (38).
Smith, Geo. Gregory, St. Albans, Vt. (36).

Smith, Henry L., 149 Broadway, New York, N. Y. (26).
Smith, Mrs. Henry L., 149 Broadway, New York, N. Y. (26).
Smith, Prof. Herbert S. S., Coll. of New Jersey, Princeton, N. J. (29). D
Smith, James H., Berea, Ohio (40).
Smith, Mrs. J. Lawrence, Louisville, Ky. (26).
Smith, Miss Jennie, Peabody Museum, Cambridge, Mass. (29). H
Smith, Mrs Marshall E., 4011 Baring St., Philadelphia, Pa. (40) H I
Smith, Middleton, P. O. Box 572, Washington, D. C. (40).
Smith, Robert D., Pres. Columbia Athenæum, Columbia, Tenn. (39).
Smith, Thomas H., 218 La Salle St., Chicago, Ill. (31). I
Smith, Theodore W., Indianapolis, Ind. (39). C
SMITH, USELMA C., 707 Walnut St., Philadelphia, Pa. (33). F
Smucker, Isaac, Newark, Ohio (29). H
Smyth, C. H., jr., Clinton, N. Y. (38).
Smyth, Prof. Jas. D., Burlington, Iowa (28). I
Snell, Merwin Marie, Catholic Univ. of America, Washington, D. C. (40).
Snow, B. W., Ass't Statistician, Dept. of Agric., Washington, D. C. (40).
Snow, Julia W., La Salle, Ill. (39). F
Soule, Wm., Ph.D., Alliance, Ohio (33). B C E
Southworth, Miss Effie A., Forestville, N. Y. (35). F
Souvielle, Mathieu, M.D., Box 335, Jacksonville, Fla. (36). B E F
Souvielle, Mrs. M., Box 335, Jacksonville, Fla. (24). A B F
Spear, Gen. Ellis, 1003 F St., N.W., Washington, D. C. (40). I
Speck, Hon. Charles, 1206 Morrison Ave., St. Louis, Mo. (27).
Spencer, Geo. S., St. Cloud, Minn. (32). E
SPENZER, JOHN G., M.D., 368 Central Ave., Cleveland, Ohio (37). C
Sperry, Chas., Port Washington, L. I. (33). D A B C E I
Speyers, Clarence L., Columbia, Mo. (36). C
Spilsbury, E. Gybbon, 13 Burling Slip, New York, N. Y. (33). E D
Spofford, Paul N., P. O. Box 1667, New York, N. Y. (36).
SPRAGUE, C. H., Malden, Mass. (29).
Sprague, Frank J., 182 West End Ave., New York, N. Y. (29).
Stam, Colin F., Chestertown, Md. (33). C F
Starek, Emil, E. M., 222 Indiana Ave., Washington, D. C. (40). C D E
Stark, Prof. Wm. B., State College, Lexington, Ky. (39). F
Starr, Dr. Charles S., 95 North Ave., Rochester, N. Y. (31).
Starr, Frederick, Ph.D., Prof. Univ. of Chicago, Chicago, Ill. (36). H E
Stedman, Prof. John M., Trinity Univ., Durham, N. C. (40).
Steele, Miss Maria O., 138 Montague St., Brooklyn, N. Y. (35). F
Steiger, George, 1636 15th St., Washington, D. C. (40). C E B
Steinmetz, Chas. Proteus, 124 Waverly Place, Yonkers, N. Y. (40).
Stejneger, Leonhard, Curator Dept. of Reptiles, National Museum, Washington, D. C. (40). F
Stevens, Alviso B., Ann Arbor, Mich. (40). C
Stevens, Geo. T., M.D., 33 West 33d St., New York, N. Y. (28). B F
Stevens, Prof. Moses C., La Fayette, Ind. (39). A

Stevens, Mrs. Sarah C., Mankato, Minn. (40).
Stevenson, Mrs. Cornelius, 237 S. 21st St., Philadelphia, Pa. (33).
Stewart, Francis L., Murrysville, Pa. (38). F C
Stieglitz, Dr. Julius, 14 E. 60th St., New York, N. Y. (39). C
Stiles, Dr. Chas. W., Dept. of Agric., Washington, D. C. (40) F
Stine, Prof. W. M., Ohio Univ., Athens, Ohio (37). A C
Stockbridge, Horace E., Fargo, No. Dakota (31).
Stoek, H. H., Lehigh Univ., So. Bethlehem, Pa. (40). E
Stoller, Prof. James H., Union College, Schenectady, N. Y. (36). E F
Stone, D. D., E. 10th and Oneida Sts., Oswego, N. Y. (39). F
Stone, Lincoln R., M.D., Newton, Mass. (31).
Stoops, H. M., Brookville, Ind. (39). H
Stowell, John, 48 Main St., Charlestown, Mass. (21).
Streeruwitz, W. H. von, 88 Travis St., Houston, Texas (40).
Street, Charles Stuart, 38 Kenilworth St., Roxbury, Mass. (38). E C
Stuart, Dr. William Theophilus, 197 Spadina Ave., Toronto, Ontario, Can. (38). B C E F
Stubbs, W. C., Audubon Park, New Orleans, La. (40).
Studebaker, Clem, South Bend, Ind. (39). I
Sturgis, Wm. C., 384 Whitney Ave., New Haven, Conn. (40). F
Sullivan, J. A., care Dr. Sullivan, 310 Main St., Malden, Mass. (27). A
Sullivan, J. C., M.D., Cairo, Ill. (40). A
Swasey, Oscar F., M.D., Beverly, Mass. (17).
Sweet, Henry N., 89 State St., Boston, Mass. (40). H D
Sweetnam, Geo. Booker, 39 St. Vincent St., Toronto, Ontario, Can. (38).
Swingle, W. T., Dept. of Agric., Washington, D. C. (40). F
Symons, Harry, 4 Howard St., Toronto, Ontario, Can. (38).

Taft, Charles E., care Census Bureau, Washington, D. C. (37). E
Taft, Mrs. Charles E., care Census Bureau, Washington, D. C. (37). B
TAFT, ELIHU B., Burlington, Vt. (36). H
Talbott, Mrs. Laura Osborne, 927 P St., Washington, D. C. (36).
Talbott, Dr. Thomas M., 927 P St., Washington, D. C. (40).
Talbutt, John H., Lexington, Ky. (38).
Taylor, Edward Randolph, Cleveland, Ohio (39). C
Taylor, F. B., Box 2019, Fort Wayne, Ind. (39).
Taylor, Prof. Jas. M., Hamilton, Madison Co., N. Y. (33). A D
Taylor, Robert S., Box 2019, Fort Wayne, Ind. (39).
Taylor, William Alton, 1228 14th St., Washington, D. C. (40).
Teller, George L., Fayetteville, Washington Co., Ark. (40). C
Thompson, Alton Howard, 721 Kansas Ave., Topeka, Kan. (33). H F
Thompson, Daniel G., 120 Broadway, New York, N. Y. (29).
Thompson, Mrs. Ellen P., 1729 12th St., Washington, D. C. (40). H
Thompson, Prof. Edw. P., Beaver Falls, Pa. (37). A
Thompson, Mrs. Frank, 233 South 4th St., Philadelphia, Pa. (33).
THOMPSON, FRED'K F., 283 Madison Ave., New York, N. Y. (36).
Thompson, Harvey M., Ross House, Oakland, Cal. (17).

Thompson, J. L., M.D., Indianapolis, Ind. (39). **F**
Thompson, Robert Allen, Collegiate Inst., Hamilton, Ont., Can. (38). **A**
Thruston, R. C. Ballard, Louisville, Ky. (36). **E**
Thurtle, J. G., Indianapolis, Ind. (39).
Thwing, Charles B., Northwestern Univ., Evanston, Ill. (38). **B**
Tiffany, Asa S., 901 West 5th St., Davenport, Scott Co., Iowa (27). **E H**
Tight, Prof. William George, Granville, Ohio (39). **F**
Tindall, Willoughby C., Associate Prof. of Math., Univ. of Missouri, Columbia, Mo. (40).
Todd, Albert M., Nottawa, Mich. (37). **C**
Townsend, Clinton P., Donaldsonville, La. (40). **C**
Townsend, Franklin, 4 Elk St., Albany, N. Y. (4).
Townsend, Henry C., 709 Walnut St., Philadelphia, Pa. (33). **I**
Treat, Erastus B., Publisher and Bookseller, 5 Cooper Union, cor. 4th Ave. and 8th St., New York, N. Y. (29). **F I**
Trenholm, Hon. W. L., Pres. Amer. Surety Co., 160 Broadway, New York, N. Y. (35).
Trescot, T. C., 1418 L St., Washington, D. C. (40). **C**
Trowbridge, Luther H., 266 Woodward Ave., Detroit, Mich. (29).
Trowbridge, Mrs. L. H., 266 Woodward Ave., Detroit, Mich. (21).
Tryon, F. M., Room 120, Patent Office, Washington, D. C. (40).
Tudor, Prof. Joseph H., Florence, N. J. (39).
Tullock, Alonzo J., Engineer, Leavenworth, Kansas (35). **D**
Turnbull, Mungo, 18 Denison Square, Toronto, Ontario, Can. (38). **A E**
Turner, Dr. E. Marsh, Pres. W. Va. Univ., Morgantown, W. Va. (40). I
Turner, Henry Ward, Valley Springs, Cal. (34). **E**

Ulrey, Albert B., North Manchester, Ind. (39). **F**
Updegraff, Milton, Observatory, Columbia, Mo. (40). **A**

Vail, Prof. Hugh D., Santa Barbara, Cal. (18).
Valentine, Benj. B., Richmond, Va. (33). **H**
Valentine, Edw. P., Richmond, Va. (33). **H**
Van Beuren, Frederick T., 21 W. 14th St., New York, N. Y. (36).
Van Brunt, Cornelius, 319 E. 57th St., New York, N. Y. (28).
Van Vleck, Frank, Pacific Railway Co., Los Angeles, Cal. (35). **D**
Varney, Miss May, Simon, Wayne Co., Pa. (40).
Vaux, Geo., jr., 404 Girard Building, Philadelphia, Pa. (33). **E A**
Veeder, Major Albert, M.D., Lyons, Wayne Co., N. Y. (36).
Vermyné, J. J. B., M.D., 2 Orchard St., New Bedford, Mass. (29). **F**
Vieth, William, cor. 8th and Freeman Sts., Cincinnati, O. (28).
Villard, Fanny G., Dobbs Ferry, N. Y. (36).
Vinal, W. Irving, 1106 A St., N. E., Washington, D. C. (40). **E**
Voorhees, Chas. H., M.D., P. O. Lock Box 120, New Brunswick, N. J. (29). **F H**
Vredenburgh, Edw. H., Rochester, N. Y. (29).

Wadsworth, H. L., 1209 17th St., Denver, Col. (39). **D**

Wagenhals, Samuel, Box 382, Fort Wayne, Ind. (40). H
Wagner, Frank C., care Wm. Wagner, Ann Arbor, Mich. (34). D
Waite, M. B., Dep't of Agriculture, Washington, D. C. (37).
Wales, Salem H., 25 E. 55th St., New York, N. Y. (36).
Walker, Byron Edmund, Toronto, Ontario, Can. (38). E
Walker, George C., 228 Michigan Ave., Chicago, Ill. (17).
Walker, Philip, Dep't of Agric., Division of Entomology, Silk Culture, Washington, D. C. (33). B D
Wall, John L., 338 Sixth Avenue, New York, N. Y. (27). F
Walter, Robert, M.D., Walter's Park P. O., Wernersville, Pa. (33). F H
Walton, Jos. R., M.D., 1921 Pennsylvania Ave., Washington, D. C. (40).
Walworth, Rev. Clarence A., 41 Chapel St., Albany, N. Y. (28). E
Wanamaker, John, Postmaster General, Washington, D. C. (33).
Wappenhaus, C. F. R., Signal Office, Indianapolis, Ind. (39). B
Ward, Frank A., 16-26 College Ave., Rochester, N. Y. (40).
Ward, J. Langdon, 120 Broadway, New York, N. Y. (29). I
Ward, Samuel B., M.D., Albany, N. Y. (29). F C A
Wardwell, George J., Rutland, Vt. (20). D E
Ware, Wm. R., Columbia College, New York, N. Y. (36).
Waring, John, Manchester, Conn. (33). D B
Warner, Prof. A. G., District Offices, Washington, D. C. (38).
Warner, Hulbert H., Rochester, N. Y. (31). A
Warren, Eugene C., 611 W. Main St., Louisville, Ky. (37).
Warren, Mrs. Susan E., 67 Mt. Vernon St., Boston, Mass. (29).
Warrington, James N., Vulcan Iron Works, 86 No. Clinton St., Chicago, Ill. (34). D A B
Waterhouse, A., M.D., 42 Allen St., Jamestown, N. Y. (29). F
Waterman, L. D., M.D., Indianapolis, Ind. (39). F
Waters, Edwin F., 131 Newbury St., Boston, Mass. (29).
Waters, Geo. F., 6 Somerset St., Boston, Mass. (29). B F H E D
Watkins, John E., C. E., National Museum, Washington, D. C. (40) D
Watkins, L. D., Manchester, Mich. (34). C
Watson, Miss C. A., Salem, Mass. (31). D
Watters, William, M. D., 26 So. Common St., Lynn, Mass. (40).
Weaver, Gerrit E. Hambleton, A.M., 300 So. 36 St., Philadelphia, Pa. (38). F
Weed, H. E., Agricultural College, Miss. (40). F
Weed, J. N., Newburgh, N. Y. (37). E I
Weeden, Hon. Joseph E., Randolph, Cattaraugus Co., N. Y. (31).
Weeks, Joseph D., Editor American Manufacturer, Pittsburgh, Pa. (35). D
Welch, Thomas V., Superintendent State Reservation, Niagara Falls, N.Y. (35).
Wells, Amos R., Antioch College, Yellow Springs, Ohio (38).
Wells, Mrs. C. F., 775 Broadway, New York, N. Y. (31). H F I D B
Wells, Samuel, 31 Pemberton Square, Boston, Mass. (24). H
Wells, William H., jr., 274 Ashland Ave., Chicago, Ill. (39). E

Werum, Jno. H., Toledo, Ohio (40).
West, Miss Nellie B., 875 Madison Ave., New York, N. Y. (38). E
Westbrook, Benj. F., M.D., 174 Clinton St., Brooklyn, N. Y. (33).
Wetzler, Jos., Room 175, Potter Building, New York, N. Y. (36).
Wheeler, Herbert A., Washington Univ., St. Louis, Mo. (33). E I
Wheeler, T. B., M.D., 194 Mountain St., Montreal, P. Q., Can. (11).
Wheildon, Miss Alice W., Concord, Mass. (31).
Whelen, Edw. S., 1520 Walnut St., Philadelphia, Pa. (33).
Whetstone, John L., Summit Ave., Mt. Auburn, Cincinnati, Ohio (30). D
White, Charles H., Med. Inspector U.S.N., care A. B. Gilman, Bradford, Mass. (34). C
White, David, U. S. Geol. Survey, Washington, D. C. (40). E F
White, James G., 29 Broadway, New York, N. Y. (34). B A
White, LeRoy S., Box 324, Waterbury, Conn. (23).
White, Loomis L., 7 E. 44th St., New York, N. Y. (36).
Whiting, Mrs. Francis, Jeffersonville, Montgomery Co., Pa. (40).
Whiting, S. B., 11 Ware St., Cambridge, Mass. (33). D
Whitlock, Prof. Roger H., Coll. Station, Brazos Co., Texas (36). A B D
Whitney, Joseph T., Ohio State Univ.. Columbus, Ohio (40).
Wickersham, Jas. A., Rose Polytechnic Inst., Terre Haute, Ind. (39). H
Wilbor, Rev. W. C., Ph.D., 498 W. Ferry St., Buffalo, N. Y. (39). F
Wilbour, Mrs. Charlotte B., Little Compton, R. I. (28).
Wilcox, Miss Emily T., 85 Second St., Troy, N. Y. (33). B A
Wilder, Alex., M.D., 565 Orange St., Newark, N. J. (29). H F I
Wilkinson, Ernest, Washington, D. C. (40).
Wilkinson, J. Henderson, 320 E. Capitol St., Washington, D. C. (35). E
Wilkinson, Mrs. L. V., Seventy Six P. O., Perry Co., Mo. (30).
Willetts, Joseph C., Skaneateles, N. Y. (29). E F H
Willitts, George E., Lansing, Mich. (39). F
Willits, Edwin, Dept. of Agriculture, Washington, D. C. (40). I
Williams, Prof. Edward H., jr., Box 463, Bethlehem, Pa. (25). E D
WILMARTH, MRS. HENRY D., 51 Eliot St., Jamaica Plain, Mass. (40).
Wilmot, Thos. J., Commercial Cable Co., Waterville, County Kerry, Ireland (27). B
Wilson, Herbert M., U. S. Geol. Survey, Washington, D. C. (40). D E
Windle, Prof. W. S., College Springs, Iowa (39). F
Wingate, Miss Hannah S., 42 Ashland Place, Brooklyn, N. Y. (31). E I
Winterhalter, A. G., Lt. U. S. N., care Navy Dept., Washington, D. C. (37). A
Wisser, John P., 1st Lt. 1st Artillery, U. S. A., West Point, N. Y. (33). C
Witt, Carl C., Indianapolis, Ind. (39).
Witton, James G., B.A., University Coll., Toronto, Ontario, Can. (38). B
Wolcott, Mrs. Henrietta L. T., Dedham, Mass. (29).
Wolff, Dr. J. E., 15 Story St., Cambridge, Mass. (36).
Wood, Alvinus B., 980 Jefferson Ave., Detroit, Mich. (34). E
Wood, Joseph S., Mount Vernon, Westchester Co., N. Y. (36).
Wood, Norman B., jr., 67½ University St., Cleveland, Ohio (38).

WOOD, DR. ROBERT W., Jamaica Plain, Mass. (29).
WOOD, WALTER, 400 Chestnut St., Philadelphia, Pa. (33). F I
Wrenshall, John C., Baltimore, Md. (40). H
Würtele, Miss Minnie, Acton Vale, P. Q., Can. (32). H
Wyman, Walter, M.D., Supervising Surg. Gen., U. S. Marine Hospital Service, Washington, D. C. (40). I
Wyman, Walter Channing, 158 Dearborn St., Chicago, Ill. (34). H

Yeates, W. S., U. S. National Museum, Washington, D. C. (40).
York, Mrs. Margaret M., 937 Westminster St., Washington, D. C. (40). H
Youmans, Mrs. Celia G., Mount Vernon, N. Y. (36).
Young, Prof. A. Harvey, Hanover College, Hanover, Ind. (30). F C
Young, Archibald Hope, Upper Canada College, Toronto, Ontario, Can. (38).

[1270 PATRONS, CORRESPONDING MEMBERS AND MEMBERS.]

NOTE.—The omission of an address in the foregoing list indicates that letters directed to that last printed were returned as uncalled for. Information of the present address of the members so indicated is requested by the PERMANENT SECRETARY.

HONORARY FELLOWS.[1]

ROGERS, WILLIAM B., Boston, Mass. (1). 1881. (Born Dec. 7, 1804. Died May 30, 1882.) **B E**

CHEVREUL, MICHEL EUGÈNE, Paris, France (35). 1886. (Born Aug. 31, 1786. Died April 9, 1889.) **C**

GENTH, DR. F. A., 3937 Locust St., Philadelphia, Pa. (24). 1888. **C E**

HALL, PROF. JAMES, Albany, N. Y. (1). 1890. **E F**

FELLOWS.[2]

Abbe, Professor Cleveland, Meteorologist, Weather Bureau, Dept. of Agric., Washington, D. C. (16). 1874. **B A**

Abbott, Dr. Chas. C., Trenton, N. J. (29). 1883. **F H**

Abert, S. Thayer, 1108 G St., N. W., Washington, D C. (30). 1891. **A B D E I**

Adams, Frank Dawson, McGill Coll., Montreal, P. Q., Can. (29). 1885.

Alden, Prof. Geo. I., Worcester, Mass. (33). 1885. **D**

Alexander, John S., Texas Nat'l Bank, San Antonio, Texas (20). 1874. **B C D**

Allen, Joel A., American Museum of Natural History, Central Park, New York (18). 1875. **F**

Allen, Dr. T. F., 10 E. 36th St., New York, N. Y. (35). 1887. **F**

Alvord, Major Henry E., College Park, Prince George's Co., Md. (29). 1882. **I**

Alwood, Prof Wm. B., Agricultural and Mechanical College and Experiment Station, Blacksburg, Va. (39). 1891. **F**

Ammen, Daniel, Rear Admiral U. S. Navy, Ammendale, Prince George's Co., Md. (26). 1881. **E**

Andrews, Prof. Launcelot W., Iowa City, Iowa (39). 1891. **C**

Anthony, Prof. Wm. A., Manchester, Conn. (28). 1880. **B**

Antisell, Thomas, M.D., 1311 Q St., N. W., Washington, D. C. (33). 1890. **C E**

Arey, Albert L., Free Academy, Rochester, N. Y. (35).

Arthur, J. C., La Fayette, Ind. (21). 1883. **F**

Atkinson, Edward, 31 Milk St., Boston, Mass. (29). 1881. **I D**

Atwater, Prof. W. O., Wesleyan Univ., Middletown, Conn. (29). 1882. **C**

Atwell, Charles B., 1038 Sherman St., Evanston, Ill. (36). 1890. **F**

Auchincloss, Wm. S., 209 Church St., Philadelphia, Pa. (29). 1886. **D A**

Avery, Elroy M., Ph.D., Woodland Hills Ave., Cleveland, Ohio (37). 1889. **B**

Ayres, Prof. Brown, Tulane Univ., New Orleans, La. (31). 1885. **B**

[1] See ARTICLE VI of the Constitution. [2] See ARTICLE IV of the Constitution.

*** The number in parenthesis indicates the meeting at which the member joined the Association; the date following is the year when made a Fellow; the black letters at end of line are those of the sections to which the Fellow belongs.

When the name is given in small capitals, it designates that the Fellow is also a Life Member, and is entitled to the Annual Volume of Proceedings.

Babcock, S. Moulton, Madison, Wis. (33). 1885. **C**
Bailey, E. H. S., Lawrence, Douglas Co., Kan. (25). 1889. **C E**
Bailey, Prof. Liberty H., Ithaca, N. Y. (34). 1887. **F**
Bailey, Prof. Loring W., University of Fredericton, N. B. (18). 1875.
Bailey, Prof. W. W., Brown University, Providence, R. I. (18). 1874. **F**
Baker, Frank, M.D., 1315 Corcoran St., Washington, D. C. (31). 1886. **F H**
Baker, Marcus, U. S. Geological Survey, Washington, D. C. (30). 1882. **A**
Baldwin, Judge Charles C., 1264 Euclid Ave., Cleveland, Ohio (37). 1891. **H I**
Ballard, Harlan H., 50 South St., Pittsfield, Mass. (31). 1891. **E F**
BARKER, PROF. G. F., Univ. of Penn., Philadelphia, Pa. (13). 1875. **B C**
Barnard, Edward E., Lick Observ., San José, Cal. (26). 1883. **A**
Barnes, Prof. Chas. R., Madison, Wis. (33). 1885. **F**
Bartlett, Prof. Edwin J., Dartmouth College, Hanover, N. H. (28). 1883. **C**
Bartlett, John R., Commander U. S. N., Lonsdale, R. I. (30). 1882. **E B**
Barus, Carl, Ph.D., U. S. Geol. Survey, Washington, D. C. (33). 1887. **B**
Bassett, Homer F., Waterbury, Conn. (23). 1874. **F**
Bates, Henry H., Ph.D., U. S. Patent Office, Washington, D. C. (33). 1887. **B A C D**
Battle, Herbert B., Ph.D., Director N. C. Agric. Exper. Station, Raleigh, N. C. (33). 1889. **C**
Baur, George, Clark Univ., Worcester, Mass. (36). 1889.
Bausch, Edward, Rochester, N. Y. (26). 1883. **A B C F**
Beal, Prof. Wm. James, Agricultural College, Ingham Co., Mich. (17). 1880. **F**
Beardsley, Prof. Arthur, Swarthmore College, Swarthmore, Del. Co., Pa. (33). 1885. **D**
Beauchamp, Rev. Wm. M., Baldwinsville, N. Y. (34). 1886. **H**
Becker, Dr. Geo. F., U. S. Geol. Survey, Washington, D. C. (36). 1890. **E**
Bell, Dr. Alex. Graham, Scott Circle, 1331 Connecticut Ave., Washington, D. C. (26). 1879. **B H I**
Bell, Alex. Melville, 1525 35th St., Washington, D. C. (31). 1885. **H**
Bell, Robert, M.D., Ass't Director Geological Survey, Ottawa, Ontario, Can. (38). 1889. **E F**
Beman, Wooster W., 19 So. 5th St., Ann Arbor, Mich. (34). 1886. **A**
BENJAMIN, MARCUS, care D. Appleton & Co., 1 Bond St., New York, N. Y. (27). 1887. **C**
Benjamin, Rev. Raphael, M.A., 178 E. 70th St., New York, N. Y. (34). 1887. **F A B D E H I**
Bennett, Prof. Wm. Z., Wooster, Wayne Co., Ohio (33). 1889. **C**
Bessey, Prof. Charles E., Univ. of Nebraska, Lincoln, Neb. (21). 1880. **F**

Bethune, Rev. C. J. S., Trinity College School, Pt. Hope, Ont., Can. (18). 1875. **F**

Beyer, Dr. Henry G., U. S. N., U. S. National Museum, Washington, D. C. (31). 1884. **F**

Bickmore, Prof. Albert S., American Museum of Natural History, 8th Ave. and 77th St., Central Park, New York, N. Y. (17). 1880. **H**

Bigelow, Prof. Frank H., Naut. Almanac, Washington, D. C. (36). 1888. **A**

Billings, John S., Surgeon U. S. A., Surg. General's Office, Washington, D. C. (32). 1883. **F H**

Blackham, George E., M.D., Dunkirk, N. Y. (25). 1883. **F**

Blake, Clarence J., M.D., 226 Marlborough St., Boston, Mass. (24). 1877. **B F**

Blake, Prof. Eli W., Brown Univ., Providence, R. I. (15). 1874. **B**

Blake, Francis, Auburndale, Mass. (23). 1874. **B A**

Blue, Archibald, Director of the Bureau of Mines, Toronto, Ontario, Can. (35). 1890. **I**

Boardman, Mrs. William D., 38 Kenilworth St., Roxbury, Mass. (28). 1885. **E H**

Boas, Dr. Franz, Clark Univ., Worcester, Mass. (36). 1888. **H**

Boerner, Chas. G., Vevay, Switzerland Co., Ind. (29). 1886. **A B E**

Bolton, Dr. H. Carrington, University Club, New York, N. Y. (17). 1875. **C**

Bond, Geo. M., care of The Pratt & Whitney Co., Hartford, Conn. (33). 1885. **D**

Bourke, John G., Capt. 3d Cavalry, U. S. A., War Dept., Washington, D. C. (33). 1885. **H**

Bouvé, Thos. T., Boston Soc. Nat. Hist., Boston, Mass. (1). 1875. **E**

Bowditch, Prof. H. P., Jamaica Plain, Mass. (28). 1880. **F B H**

Bowser, Prof. E. A., Rutgers College, New Brunswick, N. J. (28). 1881.

Brackett, Prof. C. F., College of New Jersey, Princeton, N. J. (19). 1875. **B**

Brackett, Richard N., Associate Prof. of Chemistry, Clemson Agric. College, Fort Hill, S. C. (37). **C E**

Bradford, Royal B., Commander U. S. N., care Navy Dept, Washington, D. C. (31). 1891. **B D**

Branner, John C., Leland Stanford jr. Univ., Menlo Park, Cal. (34). 1886. **E F**

Brashear, Jno. A., Allegheny, Pa. (33). 1885. **A B D**

Brewer, Prof. Wm. H., New Haven, Conn. (20). 1875. **E F I**

Brewster, William, 61 Sparks St., Cambridge, Mass. (29). 1884. **F**

Brinton, D. G., M.D., Media, Pa. (33). 1885. **H**

Britton, N. L., Columbia College, New York, N. Y. (29). 1882. **F E**

Broadhead, Garland Carr, University, Columbia, Mo. (27). 1879. **E**

Brooks, Wm. R., Box 714, Geneva, N. Y. (35). 1886. **A B D G**

Brown, Robert, care of Yale College Observatory, New Haven, Conn. (11). 1874.

Brown, Mrs. Robert, New Haven, Conn. (17). 1874.

Brühl, Gustav, cor. John and Hopkins Sts., Cincinnati, Ohio (28). 1886. **H**

Brush, Charles F., Brush Electric Light Co., Cleveland, Ohio (35). 1886. **B**

BRUSH, PROF. GEORGE J., Yale College, New Haven, Conn. (4). 1874. **C E**
Bryce, George, LL.D., Manitoba College, Winnipeg, Manitoba (38). 1889. **H**
Buckhout, W. A., State College, Centre Co., Pa. (20). 1881. **F**
Burgess, Dr. Thomas J. W., Med. Sup't, Protestant Hospital for the Insane, Montreal, P.Q., Can. (38). 1889. **F**
Burr, Prof. William H., 151 W. 74th St., New York, N. Y. (31). 1883.
Burrill, Prof. T. J., Univ. of Illinois, Champaign, Ill. (29). 1882. **F**
Butler, A. W., Brookville, Franklin Co., Ind. (30). 1885. **F H**

Caldwell, Prof. Geo. C., Cornell University, Ithaca, N. Y. (23). 1875. **C**
Calvin, Prof. Samuel, State Univ. of Iowa, Iowa City, Iowa (37). 1889. **E F**
Campbell, Prof. Douglas H., Menlo Park, Cal. (34). 1888. **F**
Canby, William M., 1101 Delaware Avenue, Wilmington, Del. (17). 1878. **F**
Carhart, Prof. Henry S., University of Michigan, Ann Arbor, Mich. (29). 1881. **B**
Carpenter, Louis G., Agricultural College, Fort Collins, Col. (32). 1889. **A B**
Carpenter, Capt. W. L., U. S. A., Dunkirk, N. Y. (24). 1877. **F E**
Carpmael, Charles, Director of Magnetic Observatory, Toronto, Ontario, Can. (31). 1883. **B**
Carr, Lucien, Peabody Museum Archæology and Ethnology, Cambridge, Mass. (25). 1877. **H**
Case, Col. Theo. S., Kansas City, Mo. (27). 1883. **H B**
Chamberlain, Alexander F., Clark Univ., Worcester, Mass. (38). 1890. **H**
Chamberlin, T. C., Madison, Wis. (21). 1877. **E B F H**
Chandler, Prof. C. F., School of Mines, Columbia Coll., East 49th St. cor. 4th Ave., New York, N. Y. (19). 1875. **C**
Chandler, Prof. Charles Henry, Ripon, Wis. (28). 1883. **A B**
Chandler, Seth C., jr., 16 Craigie St., Cambridge, Mass. (29). 1882. **A**
Chandler, Prof. W. H., South Bethlehem, Pa. (19). 1874. **C**
Chanute, O., 413 E. Huron St., Chicago, Ill. (17). 1877. **D I**
Chapin, Dr. J. H., Meriden, Conn. (33). 1886. **E H**
Chester, Prof. Albert H., Rutgers College, New Brunswick, N. J. (29). 1882. **C F**
Chester, Prof. Fred'k D., Del. State Coll., Newark, Del. (33). 1887. **E**
Chickering, Prof. J. W., jr., Deaf Mute College, Washington, D. C. (22). 1877. **F I**
Christie, Alexander Smyth, U. S. C. and G. Survey, Washington, D. C. (39). 1891. **A B D**
Chute, Horatio N., Ann Arbor, Mich. (34). 1889. **B C A**
Clapp, Miss Cornelia M., Mt. Holyoke Seminary, South Hadley, Mass. (31). 1883. **F**
Clark, Alvan G., Cambridgeport, Mass. (28). 1880. **A B**
Clark, Prof. John E., 30 Trumbull St., New Haven, Conn. (17). 1875. **A**
Clark, Wm. Bullock, Ph.D., Johns Hopkins Univ., Baltimore, Md. (37) 1891. **E**

Clarke, Prof. F. W., U. S. Geological Survey, Washington, D. C. (18). 1874. **C**

Claypole, Prof. Edw. W., Buchtel Coll., Akron, Ohio (30). 1882. **E F**

Clayton, H. Helm, Readville, Mass. (34). 1887. **B**

Cloud, John W., 974 Rookery, Chicago, Ill. (28). 1886. **A B D**

Coffin, Prof. Selden J., Lafayette College, Easton, Pa. (22). 1874. **A I**

Cogswell, W. B., Syracuse, N. Y. (33). 1891. **D**

Cole, Prof. Alfred D., Denison Univ., Granville, Ohio (39). 1891. **B C**

Collett, Prof. John, Indianapolis, Ind. (17). 1874. **E**

Collin, Prof. Alonzo, Cornell College, Mount Vernon, Iowa (21). 1891. **B C**

Collingwood, Francis, Elizabeth, N. J. (36). 1888. **D**

Colvin, Verplanck, Supt. N. Y. State Adirondack Survey, Albany, N. Y. (28). 1880. **E**

Comstock, Prof. Geo. C., Washburn Observ., Univ. of Wisconsin, Madison, Wis. (34). 1887. **A**

Comstock, J. Henry, Cornell Univ., Ithaca, N. Y. (28). 1882. **F**

Comstock, Milton L., 641 Academy St., Galesburg, Ill. (21). 1874. **A**

Comstock, Prof. Theo. B., Director School of Mines, Univ. of Arizona, Tucson, Arizona (24). 1877. **D E B**

Cook, Prof. A. J., Agricultural College, Mich. (24). 1880. **F**

Cook, Chas. Sumner, Evanston, Ill. (36). 1889. **B**

Cooley, Prof. Le Roy C., Vassar College, Poughkeepsie, N. Y. (19). 1880. **B C**

Cooley, Prof. Mortimer E., Univ. of Michigan, Ann Arbor, Mich. (33). 1885. **D**

Cope, Prof. Edward D., 2100 Pine St., Philadelphia, Pa. (17). 1875. **F E**

Corthell, Elmer L., "The Temple," Chicago, Ill. (34). 1886. **D**

Coulter, Prof. John M., Wabash College, Crawfordsville, Ind. (32). 1884. **F**

Coulter, Prof. Stanley., La Fayette, Ind. (35). 1890. **F**

Coville, Frederick V., Dept. of Agric., Washington, D. C. (35). 1890. **F**

Cox, Prof. Edward T., Gilsey House, New York, N. Y. (19). 1874. **E**

Cox, Hon. Jacob D., Gilman Ave., Mt. Auburn, Cincinnati, Ohio (30). 1881. **F**

Coxe, Eckley B., Drifton, Luzerne Co., Pa. (23). 1879. **D E**

Cragin, Francis W., 2004 San Antonio St., Austin, Texas (29). 1890. **F E H**

Crampton, Chas. A., M.D., Office of Internal Revenue, Treasury Department, Washington, D.C. (36). 1887. **C**

Crandall, Prof. A. R., Lexington, Ky. (29). 1883. **E F**

Crawford, Prof. Morris B., Middletown, Conn. (30). 1889. **B**

Crosby, Prof. Wm. O., Boston Society of Natural History, Boston, Mass. (29). 1881. **E**

Cross, Prof. Chas. R., Mass. Institute Technology, Boston, Mass. (29). 1880. **B**

Crozier, A. A., Agricultural College, Ames, Iowa (36). 1891. **F**

Culin, Stewart, 127 South Front St., Philadelphia, Pa. (33). 1890. **H**

Cummings, John, Cummingsville, Woburn, Mass. (18). 1890. **F**
Cushing, Henry Platt, 786 Prospect St., Cleveland, Ohio (33). 1888 **E**
Cutting, Hiram A., M.D., State Geologist, Lunenburgh, Vt. (17). 1874. **E F**

Dall, William H., Smithsonian Institution, Washington, D. C. (18). 1874. **H F**
Dana, Edward Salisbury, New Haven, Conn. (23). 1875. **B E**
Dana, Prof. James D., New Haven, Conn. (1). 1875. **E**
Dancy, Frank B., A.B., Analytical and Consulting Chemist, Office and Laboratory, 133½ Fayetteville St., Raleigh, N. C. (33). 1890. **C**
Davidson, Prof. Geo., U. S. Coast and Geodetic Survey, San Francisco, Cal. (29). 1881. **A B D**
Davis, Wm. Morris, Cambridge, Mass. (33). 1885. **E B**
Dawson, Sir William, Principal McGill College, Montreal, Can. (10). 1875. **E**
Day, David F., Buffalo, N. Y. (35). 1887. **F**
Day, Fisk H., M.D., Wauwatosa, Wis. (20). 1874. **E H F**
Dean, George W., P. O. Box 92, Fall River, Mass. (15). 1874. **A**
Denton, Prof. James E., Stevens Institute, Hoboken, N. J. (36). 1888. **D B A**
Derby, Orville A., San Paulo, Brazil, S. A. (39). 1890.
Dewey, Fred P., Ph.B., 621 F St. N. W., Washington, D. C. (30). 1886. **C E**
Dimmock, George, P. O. Box 15, Canobie Lake, N. H. (22). 1874. **F**
Dodge, Charles R., 1336 Vermont Ave., Washington, D. C. (22). 1874.
Dodge, Prof. James A., University of Minnesota, Minneapolis, Minn. (29). 1884. **C E**
Dodge, J. Richards, Washington, D. C. (31). 1884. **I H**
Dolbear, A. Emerson, College Hill, Mass. (20). 1880. **B**
Doolittle, Prof. C. L., South Bethlehem, Pa. (25). 1885. **A**
Dorsey, Rev. J. Owen, Box 78, Tacoma Park, , D. C. (31). 1883. **H**
Douglass, Andrew E., 63 Pine St., New York, N. Y. (31). 1885. **H**
Dow, Capt. John M., 83 W. 71st St., New York, N. Y. (31). 1884. **F H**
Draper, Dan'l, Ph.D., Director N. Y. Meteorological Observatory, Central Park, 64th St., Fifth Avenue, New York, N. Y. (29). 1881. **B D F A**
Drown, Prof. Thos. M., Mass. Institute Technology, Boston, Mass. (29). 1881. **C**
Du Bois, Prof. Aug. J., New Haven, Conn. (30). 1882. **A B D**
Du Bois, Patterson, Ass't Editor S.S.T., 1031 Walnut St., Philadelphia, Pa. (33). 1887. **H C I**
Dudley, Charles B., Altoona, Pa. (23). 1882. **C B D**
Dudley, P. H., 66½ Pine St., New York, N. Y. (29). 1884.
Dudley, Wm. L., Prof. of Chemistry, Vanderbilt Univ., Nashville, Tenn. (28). 1881. **C**
Dudley, Prof. Wm. R., Cornell Univ., Ithaca, N. Y. (29). 1883. **F**

Dumble, E. T., Austin, Texas (37). 1891. **E**
Dunham, Edw. K., 53 E. 30th St., New York, N. Y. (30). 1890.
Dunnington, Prof. F. P., University Station, Charlottesville, Va. (26). 1880. **C**
Durand, Prof. W. F., Ph.D., Agricultural College, Mich. (37). 1890. **B**
Dwight, Prof. William B., Vassar College, Poughkeepsie, N. Y. (30). 1882. **E F**

Eastman, Prof. J. R., U. S. Naval Observatory, Washington, D. C. (26). 1879. **A**
Eaton, Prof. D. G., 55 Pineapple St., Brooklyn, N. Y. (19). 1874. **B E**
Eaton, Prof. James R., Liberty, Mo. (29). 1885. **C B E**
Eddy, Prof. H. T., Rose Polytechnic Inst., Terre Haute, Ind. (24). 1875. **A B D**
Edison, Thos. A., Orange, N. J. (27). 1878. **B**
Edmands, J. Rayner, Observatory, Cambridge, Mass. (29). 1880.
Egleston, Prof. Thomas, 35 W. Washington Square, New York, N. Y. (27). 1879. **C D E**
Eimbeck, William, U. S. C. and G. Survey, Washington, D. C. (17). 1874. **A B D**
Eldridge, Geo. H., care U. S. Geol. Survey, Washington, D. C. (37). 1890. **E**
Elkin, William L., Yale Coll. Observ., New Haven, Conn. (33). 1885. **A**
Ely, Theo. N., Sup't Motive Power, Penn. R. R., Altoona, Pa. (29). 1886.
Emerson, Prof. Benjamin K., Amherst, Mass. (19). 1877. **E F**
Emerson, Prof. C. F., Box 499, Hanover, N. H., (22). 1874. **B A**
Emery, Albert H., Stamford, Conn. (29). 1884. **D B**
Emery, Charles E., Bennett Building, New York, N. Y. (34). 1886 **D B A**
Emmons, S. F., U. S. Geol. Survey, Washington, D. C. (26). 1879. **E**
Engelmann, George J., M.D., 3003 Locust St., St. Louis, Mo. (25). 1875. **F H**
Ernst, Carl W., Room 76, Post Office, Boston, Mass. (23). 1874. **I H**
Evermann, Prof. Barton W., U. S. Fish Commission, Washington, D. C. (39). 1891.
Ewing, Thomas, jr., Patent Office, Washington, D. C. (36). 1889. **B**
Eyerman, John, Easton, Pa. (33). 1889. **E C**

Fairbanks, Henry, Ph.D., St. Johnsbury, Vt. (14). 1874. **B D A**
Fairchild, Prof. H. L., University of Rochester, Rochester, N. Y. (28). 1883. **E F**
Fanning, John T., Consulting Eng., Kasota Block, Minneapolis, Minn. (29). 1885. **D**
Farlow, Dr. W. G., 29 Holyoke House, Cambridge, Mass. (20). 1875. **F**
Farmer, Moses G., Eliot, Me. (9). 1875.
Farquhar, Henry, Coast Survey Office, Washington, D. C. (33). 1886. **A I F B**
Fernald, Prof. Charles H., Amherst, Mass. (22). 1881. **F E**

Fernald, Prof. M. C., State Agric. College, Orono, Me. (22). 1883. **B A**
Fernow, Bernhard E., Chief of Forestry Division, Dep't of Agriculture, Washington, D. C. (31). 1887. **F I**
Firmstone, F., Easton, Pa. (33). 1887. **D**
Fiske, Thos. S., A.M., Ph.D., Columbia College, New York, N. Y. (38). 1891. **A**
Fitch, Edward H., Jefferson, Ashtabula Co., Ohio (11). 1874. **I E**
Fletcher, Miss Alice C., care Peabody Museum, Cambridge, Mass. (29). 1883. **H**
Fletcher, James, Dominion Entomologist, Ottawa, Ontario, Can. (31). 1883. **F**
Fletcher, Dr. Robert, Army Medical Museum, Washington, D. C. (29). 1881. **F H**
Flint, Albert S., Washburn Observ., Madison, Wis. (30). 1887. **A**
Flint, James M., Surgeon U. S. N., Smithsonian Institution, Washington, D. C. (28). 1882. **F**
Foote, Dr. A. E., 4116 Elm Ave., Philadelphia, Pa. (21). 1874. **E C**
Forbes, Prof. S. A., Univ. of Illinois, Champaign, Ill. (27). 1879. **F**
Fox, Oscar C., U. S. Patent Office, Washington, D. C. (36). 1891. **B D**
Foye, Prof. J. C., Lawrence Univ., Appleton, Wis. (29). 1884. **C B**
Frazer, Dr. Persifor, Drexel Building, Room 1042, Philadelphia, Pa. (24). 1879. **E C**
Frazier, Prof. B. W., The Lehigh University, So. Bethlehem, Pa. (24). 1882. **E C**
Frear, Wm., State College, Centre Co., Pa. (33). 1886. **C**
Freer, Prof. Paul C., Ann Arbor, Mich. (39). 1891. **C**
French, Prof. Thomas, jr., Ridgeway Ave., Avondale, Cincinnati, Ohio (30). 1883. **B**
Frisby, Prof. Edgar, U. S. N. Observ., Washington, D. C. (28). 1880. **A**
Frost, Edwin Brant, Hanover, N. H. (38). 1890. **A B**
Fuller, Andrew S., Ridgewood, Bergen Co., N. J. (24). 1882. **F**
Fuller, Prof. Homer T., Polytechnic Inst., Worcester, Mass. (35). 1891. **C E**
Fulton, Prof. Robert B., University, Miss. (21). 1887. **B A**

Gaffield, Thomas, 54 Allen St., Boston, Mass. (29). 1889. **C B**
Gage, Simon Henry, Ithaca, N. Y. (28). 1881. **F**
Galbraith, Prof. John, Toronto, Ontario, Can. (38). 1889.
Galloway, B. T., Dep't of Agriculture, Washington, D. C. (37). 1890. **F**
Gannett, Henry, U. S. Geological Survey, Washington, D. C. (33). 1884. **E I A**
Gardiner, Dr. Edward G., Massachusetts Institute Technology, Boston, Mass. (29). 1890. **F**
Garland, Rev. Dr. L. C., Chancellor Vanderbilt University, Nashville, Tenn. (25). 1877 **B**
Garman, Samuel, Museum Comparative Zoology, Cambridge, Mass. (20). 1874. **F E**

Gatschet, Dr. Albert S., Box 333, Washington, D. C. (30). 1882. **H**
Gibbs, Prof. J. Willard, New Haven, Conn. (33). 1885. **B**
Gilbert, G. K., U. S. Geological Survey, Washington, D. C. (18). 1874. **E**
Gill, Prof. Theo., Smithsonian Inst., Washington, D. C. (17). 1874. **F**
Gilman, Daniel C., President Johns Hopkins University, Baltimore, Md. (10). 1875. **E H**
Goessman, Prof. C. A., Mass. Agricultural College, Amherst, Mass. (18). 1875. **C**
Goff, E. S., Madison, Wis. (35). 1889.
Gold, Theodore S., West Cornwall, Conn. (4). 1887. **B C**
Goldschmidt, S. A., Ph.D., 43 Sedgwick St., Brooklyn, N. Y. (24). 1880. **C E B**
Gooch, Frank A., Yale College, New Haven, Conn. (25). 1880. **C**
Goodale, Prof. G. L., Botanic Gardens, Cambridge, Mass. (18). 1875.
Goode, G. Brown, Curator Nat'l Museum, Washington, D. C. (22). 1874.
Goodfellow, Edward, Ass't U. S. Coast and Geodetic Survey, Washington, D. C. (24). 1879. **A H**
Gould, Dr. B. A., Cambridge, Mass. (2). 1875. **A B**
Grant, Mrs. Mary J., Brookfield, Conn. (23). 1874. **A**
Gratacap, L. P., Ph.B., 77th St. and 8th Ave., New York, N. Y. (27). 1884. **C E F**
Gray, Elisha, Sc.D., Highland Park, Ill. (32). 1883. **B**
Gray, Prof. Thomas, Terre Haute, Ind. (38). 1889.
Green, Arthur L., La Fayette, Ind. (33). 1888. **C**
Green, Traill, M.D., Easton, Pa. (1). 1874. **C F**
Grinnell, George Bird, 40 Park Row, New York, N. Y. (25). 1885. **F E**
Gulley, Prof. Frank A., College Station, Texas (30). 1883.

Hagen, Dr. Hermann A., Museum Comparative Zoology, Cambridge, Mass. (17). 1875. **F**
Hague, Arnold, U. S. Geol. Survey, Washington, D. C. (26). 1879.
Haines, Reuben, Haines and Chew St., Germantown, Philadelphia, Pa. (27). 1889. **C B**
Hale, Albert C., Ph.D., No. 551 Putnam Ave., Brooklyn, N. Y. (29). 1886. **C B**
Hale, Geo. E., 4545 Drexel Ave., Chicago, Ill. (37). 1891. **A B C**
Hale, Horâtio, Clinton, Ontario, Can. (30). 1882. **H**
Hall, Prof. Asaph, U. S. Naval Observatory, Washington, D. C. (25). 1877. **A**
Hall, Asaph, jr., U. S. Naval Observ., Washington, D. C. (38). 1890. **A**
Hall, Prof. C. W., 803 Univ. Ave. So., Minneapolis, Minn. (28). 1883. **E**
Hall, Prof. Edwin H., 5 Avon St., Cambridge, Mass. (29). 1881. **B**
Hall, Prof. Lyman B., Haverford College, Pa. (31). 1884. **C**
Hallowell, Miss Susan M., Wellesley Coll., Wellesley, Mass. (33). 1890. **F**
Halsted, Byron D., New Jersey Agricultural Experiment Station, New Brunswick, N. J. (29). 1883. **F**
Hambach, Dr. G., 1319 Lami St., St. Louis, Mo. (26). 1891. **F E**
Hamlin, Dr. A. C., Bangor, Me. (10). 1874. **C E H**

HANAMAN, C. E., Troy, N. Y. (19). 1883. **F**
Hardy, Prof. A. S., Dartmouth College, Hanover, N. H. (28). 1883. **A**
HARKNESS, PROF. WILLIAM, U. S. N. Observatory, Washington, D. C. (26). 1878. **A B C D**
Harrington, H. H., College Station, Texas (35). 1889. **C**
Harris, Uriah R., Lieutenant U. S. N., U. S. Naval Acad., Annapolis, Md. (34). 1886. **A**
Harris, W. T., Lock Box 1, Concord, Mass. (27). 1887. **H I**
Hart, Edw., Ph.D., Easton, Pa. (33). 1885. **C**
Hasbrouck, Prof. I. E., 364 Carlton Ave., Brooklyn, N. Y. (28). 1874. **D A I**
HASTINGS, C. S., Sheffield Scientific School of Yale College, New Haven, Conn. (25). 1878. **B**
Haupt, Prof. Lewis M., University of Pennsylvania, Philadelphia, Pa. (32). 1885. **I D E**
Haworth, Prof. Erasmus, Pennsylvania College, Oskaloosa, Iowa (37). 1890. **E**
Hay, Prof. O. P., Irvington, Ind. (37). 1889. **E F**
Haynes, Henry W., 239 Beacon St., Boston, Mass. (28). 1884. **H**
Heal, Wm. E., Marion, Ind. (39). 1891. **A**
Heilprin, Prof. Angelo, Acad. Nat. Sciences, Philadelphia, Pa. (33). 1885. **E F**
Heitzmann, Dr. Charles, 39 W. 45th St., New York, N. Y. (36). 1890.
Hendricks, J. E., Des Moines, Iowa (29). 1885. **A**
Henshaw, Henry W., Bureau of Ethnology, Washington, D. C. (24). 1877. **H**
Hering, Rudolph, Civil and Sanitary Engineer, 277 Pearl St., New York, N. Y. (33). 1885. **D E I**
Herrick, Clarence L., 12 Mason St., Mt. Auburn, Cincinnati, Ohio (31). 1884. **F E**
Hervey, Rev. A. B., President St. Lawrence University, Canton, N.Y. (22). 1879. **F**
Hicks, Prof. Lewis E., State University, Lincoln, Neb. (31). 1885. **E F**
Hilgard, Prof. E. W., University of California, Berkeley, Cal. (11). 1874. **C E B**
Hill, Chas. S., care Dep't of State, Washington, D. C. (33). 1887. **A I**
Hill, Robert Thomas, Univ. of Texas, Austin, Texas (36). 1889. **E**
Himes, Prof. Charles F., Carlisle, Pa. (29). 1882. **B C**
Hinrichs, Dr. Gustavus, 3132 Lafayette Ave., St. Louis, Mo. (17). 1874.
Hirschfelder, Chas. A., Vice Consul U. S. A., Toronto, Ontario, Can. (33). 1887. **H**
HITCHCOCK, PROF. CHARLES H., Hanover, N. H. (11). 1874. **E**
Hitchcock, Romyn, Washington, D. C. (29). 1881. **C B**
Hoffmann, Dr. Fred., "Rundschau," P. O. Box 1680, New York, N. Y. (28). 1881. **C F**
Hoffman, Dr. Walter J., Bureau of Ethnology, Washington, D. C. (38). 1890. **H**
Holden, Prof. E. S., Lick Observatory, San José, Cal. (23). 1875. **A**
Holman, Silas W., Massachusetts Institute of Technology, Boston, Mass. (31). 1883. **B**

Holmes, Prof. Jos. A., Chapel Hill, N. C. (33). 1887. **E F**
Holmes, Dr. Oliver Wendell, 296 Beacon St., Boston, Mass. (29). 1881. **H**
Holmes, Wm. H., Bureau of Ethnology, Smithsonian Institution, Washington, D. C. (30). 1883. **H**
Holway, E. W. D., Decorah, Iowa (33). 1890. **F**
Horsford, Prof. E. N., Cambridge, Mass. (1). 1876. **C E**
Horton, S. Dana, Pomeroy, Ohio (37). 1889. **I**
Hosea, Lewis M., Johnston Building, Cincinnati, Ohio (30). 1883. **B H**
Hotchkiss, Major Jed., Staunton, Va. (31). 1883. **E H I**
Hough, Prof. G. W., Director Dearborn Observatory, Evanston, Ill. (15). 1874. **A**
Hough, Walter, U. S. National Museum, Washington, D. C. (38). 1890.
Hovey, Rev. Horace C., 45 Barnum Ave., Bridgeport, Conn. (29). 1883. **E H**
Howard, Leland O., Dep't of Agric., Washington, D. C. (37). 1889. **F**
Howe, Charles S., Prof. of Mathematics, Case School of Applied Science, Cleveland, Ohio (34). 1891. **A**
Howe, Jas. Lewis, Louisville, Ky. (36). 1888. **C**
Howell, Edwin E., 537 15th St., N. W., Washington, D. C. (25), 1891. **E**
Hoy, Philo R., M.D., 902 Main St., Racine, Wis. (17). 1875. **F H**
Hulst, Rev. Geo. D., 15 Himrod St., Brooklyn, N. Y. (29). 1887. **F**
Hunt, Alfred E., 116 Water St , Pittsburgh, Pa. (35). 1891. **C D**
Hunt, George, 119 Prospect St., Providence, R. I. (9). 1874.
Hyatt, Prof. Alpheus, Natural History Society, Boston, Mass. (18). 1875. **E**
Hyde, Prof. E. W., Station D, Cincinnati, Ohio (25). 1881. **A**

Iddings, Joseph P., U. S. Geological Survey, Washington, D. C. (31). 1884. **E**
Irby, Prof. B., Irby, Ga. (37). 1891. **F**

Jack, John G., Jamaica Plain, Mass. (31). 1890. **F**
Jackson, Robert T., 33 Gloucester St., Boston, Mass. (37). 1890. **F**
Jacobus, David S., Stevens Institute, Hoboken, N. J. (36). 1889. **D B A**
Jacoby, Harold, Columbia College, New York, N. Y. (38). 1891. **A**
James Edmund J., Ph.D., Univ. of Penn., Philadelphia, Pa. (33). 1887. **I**
James, Jos. F., M.S., U. S. Geol. Survey, Washington, D. C. (30). 1882. **F E**
Jastrow, Dr. Jos., Univ. of Wisconsin, Madison, Wis. (35). 1887. **H F**
Jayne, Horace F., 1826 Chestnut St., Philadelphia, Pa. (29). 1884. **F H**
Jeffries, B. Joy, M.D., 15 Chestnut St., Boston, Mass. (29). 1881. **F H**
Jenkins, Edw. H., New Haven, Conn. (33). 1885. **C**
Jenkins, Prof. Oliver P., Leland Stanford jr. Univ., Menlo Park, Cal. (39). 1891. **F**
Jenks, Elisha T., Middleborough, Mass. (22). 1874. **D**
Jenks, Prof. J. W. P., Middleborough, Mass. (2). 1874. **B**
Jesup, Prof. Henry G., Dartmouth College, Hanover, N. H. (36). 1891. **F**
Jesup, Morris K., 52 William St., New York, N. Y. (29). 1891. **I**

Jewell, Theo. F., Commander U. S. Navy, Naval Torpedo Station, Newport, R. I. (25). 1882. **B**

Jillson, Dr. B. C., 6224 Station St., E.E., Pittsburgh, Pa. (14). 1881. **E H F**

Johnson, John B., Washington Univ., St. Louis, Mo. (33). 1886. **D**

Johnson, Lawrence C., U. S. Geol. Survey, Gainesville, Fla. (33). 1887.

Johnson, Otis C., 52 Thayer St., Ann Arbor, Mich. (34). 1886. **C**

Johnson, Prof. W. W., Naval Academy, Annapolis, Md. (29). 1881. **A**

Jordan, Prof. David S., Palo Alto, Menlo Park P. O., Cal. (31). 1883. **F**

Julien, A. A., New York Acad. of Sciences, New York, N. Y. (24). 1875. **E C**

Kedzie, Mrs. Nellie S., Manhattan, Kan. (34). 1890. **I F**

Kedzie, Prof. Robert C., Agricultural College, Mich. (29). 1881. **C**

Kellicott, David S., Columbus, Ohio (31). 1883. **F**

Kemp, James F., School of Mines, Columbia College, New York, N. Y. (36). 1888. **E**

Kendall, Prof. E. Otis, 3826 Locust St., Philadelphia, Pa. (29). 1882. **A**

Kent, William, Passaic, N. J. (26). 1881. **D I**

Kershner, Prof. Jefferson E., Lancaster City, Pa. (29). 1883. **A B**

Keyes, Charles R., 926 Ninth St., Des Moines, Iowa (37). 1890.

Kinealy, John H., No. Caro. College of Agric. and Mechan. Arts, Raleigh, N. C. (36). 1891. **D**

Kinnicutt, Dr. Leonard P., Polytechnic Inst., Worcester, Mass. (28). 1883. **C**

Kirkwood, Prof. Daniel, Arlington Ave., Riverside, Cal. (7). 1874. **A**

Klotz, Otto Julius, Preston, Ontario, Can. (38). 1889.

Kunz, G. F., 402 Garden St., Hoboken, N. J. (29). 1883. **E H C**

Ladd, Prof. E. F., Agric. College, Fargo, No. Dakota (36). 1889. **C**

Laflamme, Prof. J. C. K., Laval Univ., Quebec, Can. (29). 1887. **E B**

LaFlesche, Francis, Indian Bureau, Interior Dep't, Washington, D. C. (33). 1885. **H**

Lambert, Rev. Thomas R., D.D., Hotel Oxford, Huntington Ave., Boston, Mass. (18). 1874.

Landreth, Prof. Olin H., Vanderbilt Univ., Nashville, Tenn. (28). 1883. **D**

Langdon, Dr. F. W., 65 West 7th St., Cincinnati, Ohio (30). 1882. **F H**

Langley, Prof. J. W., 136 First Ave., Pittsburgh, Pa. (23). 1875. **C B**

Langley, Prof. S. P., Secretary Smithsonian Institution, Washington, D. C. (18). 1874. **A B**

Lanza, Prof. Gaetano, Mass. Institute of Technology, Boston, Mass. (29). 1882. **D A B**

Larkin, Edgar L., Director Knox College Observatory, Galesburg, Ill. (28). 1883. **A**

Lattimore, Prof. S. A., University of Rochester, Rochester, N. Y. (15). 1874. **C**

Laudy, Louis H., Ph.D., School of Mines, Columbia College, New York, N. Y. (28). 1890. **C**

Lawrence, George N., 45 E. 21st St., New York, N. Y. (7). 1877. **F**
Lazenby, Prof. Wm. R., Columbus, Ohio (30). 1882. **B I**
Leavenworth, Francis P., Haverford College P. O., Montgomery Co., Pa. (30). 1888. **A**
LeConte, Prof. Joseph, Univ. of Cal., Berkeley, Cal. (29). 1881. **E F**
Ledoux, Albert R., Ph.D., 39 W. 50th St., New York, N. Y. (26). 1881. **C**
Leeds, Prof. Albert R., Stevens Institute, Hoboken, N. J. (23). 1874. **C F**
Lehmann, G. W., Ph.D., 111 S. Gay St., Baltimore, Md. (30). 1885. **C B**
Lesley, Prof. J. Peter, State Geologist of Pennsylvania, 1008 Clinton St., Philadelphia, Pa. (2). 1874. **E**
Leverett, Frank, 4103 Grand Boulevard, Chicago, Ill. (37). 1891. **E**
Libbey, Prof. William, jr., Princeton, N. J. (29). 1887. **E F**
LILLY, GEN. WM., Mauch Chunk, Carbon Co., Pa. (28). 1882. (Patron) **F E**
Lindenthal, Gustav, C.E., Lewis Block, Pittsburgh, Pa. (37). 1891. **I**
Lindsley, J. Berrien, M.D., 135 North Spruce St., Nashville, Tenn. (1). 1874. **F**
Lintner, J. A., N. Y. State Entomologist, Room 27, Capitol, Albany, N. Y. (22). 1874. **F**
Lloyd, John Uri, Pharmaceutical Chemist, Court and Plum Sts., Cincinnati, Ohio (38). 1890. **C F**
Lloyd, Mrs. Rachel, Box 675, Lincoln, Neb. (31). 1889. **C**
Lockwood, Samuel, Ph.D., Freehold, Monmouth Co., N. J. (18). 1875. **F B A**
Locy, Prof. Wm. A., Lake Forest, Ill. (34). 1890. **F**
Loeb, Morris, Ph.D., Clark Univ., Worcester, Mass. (36). 1889. **C**
Lord, Prof. Nat. W., State Univ., Columbus, Ohio (29). 1881. **C**
Loud, Prof. Frank H., 1203 N. Tejon St., Colorado Springs, Col. (29). **A B**
Loudon, Prof. James, Toronto, Ontario, Can. (25). 1881. **B A**
Loughridge, Dr. R. H., Ass't Prof. Agric. Chem. and Agric. Geol., Univ. of California, Berkeley, Cal. (21). 1874. **E C**
Love, Edward G., School of Mines, Columbia College, New York, N. Y. (24). 1882. **C**
Low, Seth, Pres. Columbia Coll., New York, N. Y. (29). 1890.
Lupton, Prof. N. T., Auburn, Lee Co., Ala. (17). 1874. **C**
Lyon, Dr. Henry, 34 Monument Sq., Charlestown, Mass. (18). 1874.

McBride, Prof. Thomas H., Iowa City, Iowa (38). 1890. **F**
McCauley, Capt. C. A. H., Ass't Q. M., U. S. A., 321 Michigan Ave., Chicago, Ill. (29). 1881.
McCreath, Andrew S., 223 Market St., Harrisburg, Pa. (33). 1889. **C E**
McGee, W. J., U. S. Geol. Survey, Washington, D. C. (27). 1882. **E**
McGill, John T., Ph.D., Vanderbilt Univ., Nashville, Tenn. (36). 1888. **C**
McGuire, Joseph D., Ellicott City, Md. (30). 1891. **H**
McLeod, Prof. C. H., McGill Univ., Montreal, P. Q., Can. (35). 1887. **A B D**

McMahon, James, Ithaca, N. Y. (36). 1891 **A**

McMurtrie, William, care New York Tartar Co., 63 William St., New York, N. Y. (22). 1874. **C**

McNeill, Malcolm, Lake Forest, Ill. (32). 1885. **A**

McRae, Austin Lee, Rolla, Mo. (39). 1891. **B**

Mabery, Prof. C. F., Case School of Applied Science, Cleveland, Ohio. (29). 1881. **C**

Macfarlane, Prof. A., Univ. of Texas, Austin, Texas (34). 1886. **B A**

Macloskie, Prof. George, College of New Jersey, Princeton, N. J. (25). 1882. **F**

Magie, Prof. William F., College of New Jersey, Princeton, N. J. (35). 1887.

Mallery, Col. Garrick, U. S. Army, Bureau of Ethnology, Washington, D. C. (26). 1879. **H**

MANN, B. PICKMAN, 1918 Sunderland Place, Washington, D. C. (22). 1874 **I F**

Marcy, Oliver, LL.D., Evanston, Ill. (10). 1874. **E**

MARSH, PROF. O. C., Yale College, New Haven, Conn. (15). 1874. **F H**

Martin, Artemas, U. S. Coast Survey, Washington, D. C. (38). 1890. **A**

Martin, Prof. Daniel S., 236 West 4th St., New York, N. Y. (23). 1879. **E F**

Martin, Prof. H. Newell, Johns Hopkins University, Baltimore, Md. (27). 1880. **F H**

Martin, Miss Lillie J., Girls' High School, San Francisco, Cal. (32). 1886. **F C**

Martin, Prof. Wm. J., Davidson College, N. C. (31). 1884. **C E**

Martindale, Isaac C., Camden, N. J. (26). 1890. **F**

Mason, Prof. Otis T., Nat'l Museum, Washington, D. C. (25). 1877. **H**

Mason, Dr. William P., Prof. Rensselaer Polytechnic Inst., Troy, N. Y. (31). 1886. **C**

Matthews, Dr. Washington, 1262 New Hampshire Ave., cor. 21st St., N. W., Washington, D. C. (37). 1888. **H**

Maxwell, Rev. Geo. M., Wyoming, Hamilton Co., Ohio (30). 1886. **H E**

Mayer, Prof. A. M., Stevens Inst. of Technology, Hoboken, N. J. (19). 1874.

Meehan, Thomas, Germantown, Pa. (17). 1875 **F**

Mees, Prof. Carl Leo, Columbus, Ohio (24). 1876. **B C**

Mendenhall, Prof. T. C., U. S. C. and G. Survey, Washington, D. C. (20). 1874. **B**

Menocal, Anicito G., C.E., U. S. N.; Navy Yard, Washington, D. C. (36). 1888. **D**

Merrill, Frederick J. H., Ph B., Ass't Director, New York State Museum, Albany, N. Y. (35). 1887. **E**

Merriman, C. C., 1910 Surf St., Lake View, Chicago, Ill. (29). 1880. **F**

Merriman, Prof. Mansfield, So. Bethlehem, Pa. (32). 1885. **A D**

Merritt, Ernest, Ithaca, N. Y. (33). 1890.

Metz, Charles L., M.D., Madisonville, Hamilton Co., Ohio (30). 1885. **H**

Michael, Mrs. Helen Abbott, Torwood, Bonchurch, Isle of Wight, England (33). 1885. **C F**

Michelson, A. A., Master U. S. N., 7 Rockwell St., Cleveland, Ohio (26). 1879. **B**

Miles, Prof. Manly, Lansing, Mich. (29). 1890. **F**

Mills, T. Wesley, Montreal, P. Q., Can. (31). 1886. **F H**

Minot, Dr. Charles Sedgwick, Harvard Medical School, Back Bay, Boston, Mass. (28). 1880. **F**

Minot, Francis, M.D., 65 Marlborough St., Boston, Mass. (29). 1884.

Mixter, Prof. Wm. G., New Haven, Conn. (30). 1882. **C**

Mooney, James, Bureau of Ethnology, Washington, D. C. (38). 1890. **H**

Moore, Eliakim H., Hanover, N. H. (39). 1891. **A**

Moore, Prof. J. W., M.D., Lafayette College, Easton, Pa. (22). 1874. **B D A**

Moorehead, Warren K., Xenia, Ohio (38). 1890. **H**

Morley, Prof. Edward W., 749 Republic St., Cleveland, Ohio (18). 1876. **C B E**

Morse, Prof. E. S., Salem, Mass. (18). 1874. **F H**

Morton, H., Stevens Institute Technology, Hoboken, N. J. (18). 1875. **B C**

Moser, Lieut. Jeff. F., U. S. N., Slatington, Lehigh Co., Pa. (28). 1889. **E**

Moses, Prof. Thomas F., Urbana University, Urbana, Ohio (25). 1883. **H F**

Munroe, Prof. C. E., Chemist to Bureau of Ordnance, U. S. Torpedo Station, Newport, R. I. (22). 1874. **C**

Murdoch, John, Rock, Plymouth Co., Mass. (29). 1886. **F H**

Murtfeldt, Miss Mary E., Kirkwood, Mo. (27). 1881. **F**

Myers, John A., Agric. Exper. Station, Morgantown, W. Va. (30). 1889. **C**

Nason, Frank L., 5 Union St., New Brunswick, N. J. (36). 1888. **E**

Nason, Prof. H. B., Rensselaer Polytechnic Institute, Troy, N. Y. (13). 1874. **C E**

Nef, J. U., Clark Univ., Worcester, Mass. (39). 1891. **C**

Nelson, Prof. A. B., Centre College, Danville, Ky. (30). 1882. **A B D**

Newberry, Prof. J. S., Columbia College, New York, N. Y. (5). 1875. **E F H I**

Newberry, Prof. Spencer Baird, Ithaca, N. Y. (33). 1887. **C**

Newcomb, Prof. S., Navy Dep't, Washington, D. C. (13). 1874. **A B**

Newton, Hubert A., New Haven, Conn. (6). 1874. **A**

Nichols, E. L., Ph.D., Cornell Univ., Ithaca, N. Y. (28). 1881. **B C**

Nicholson, Prof. H. H., Box 675, Lincoln, Neb. (36). 1888.

Niles, Prof. W. H., Cambridge, Mass. (16). 1874.

Nipher, Prof. F. E., Washington Univ., St. Louis, Mo. (24). 1876. **B**

Nolan, Edw. J., M.D., Academy of Natural Sciences, Philadelphia, Pa. (29). 1890. **F**

Norton, Lewis M., Ph.D., Mass. Institute of Technology, Boston, Mass. (29). 1884. **C**

NORTON, PROF. THOMAS H., Univ. of Cincinnati, Cincinnati, Ohio (35). 1887. C

Novy, Dr. Frederick G., University of Mich., Ann Arbor, Mich. (36). 1889. C

Noyes, Prof. Wm. A., Rose Polytechnic Inst., Terre Haute, Ind. (32). 1885. C

Nuttall, Mrs. Zelia, care Peabody Museum, Cambridge, Mass. (35). 1887. H

Ogden, Herbert G., U. S. C. and G. Survey, Washington, D. C. (38). 1891. E

Oliver, Charles A., M.D., 1507 Locust St., Philadelphia, Pa. (33). 1886. F H B

Oliver, Prof. James E., P. O. Box 1566, Ithaca, N. Y. (7). 1875. A B I

Ordway, Prof. John M., Tulane University, New Orleans, La. (9). 1875. C

Orton, Prof. Edward, President Ohio Agricultural and Mechanical College, Columbus, Ohio (19). 1875. E

Osborn, Henry F., Columbia College, New York, N. Y. (29). 1883.

Osborn, Herbert, Ames, Iowa (32). 1884. F

Osmond, Prof. I. Thornton, State College, Centre Co., Pa. (33). 1889. B A C

Packard, Dr. A. S., 115 Angell St., Providence, R. I. (16). 1875. F E

Paine, Cyrus F., 305 Ellwanger & Barry Building, Rochester, N. Y. (12). 1874. B A

Paine, Nathaniel, Worcester, Mass. (18). 1874. H

Palfray, Hon. Charles W., Salem, Mass. (21). 1874.

Palmer, Chase, Ph.D., Missouri School of Mines, Rolla, Mo. (38). 1889. C

Parke, John G., Gen. U. S. A., 16 Lafayette Square, Washington, D. C. (29). 1881. D

PARKHURST, HENRY M., 173 Gates Ave., Brooklyn, N. Y. (23). 1874. A

Patrick, Geo. E., Ames, Iowa (36). 1890. C

Patterson, Harry J., College Park P. O., Md. (36). 1890. C

Paul, Prof. Henry M., U. S. Naval Observatory, Washington, D. C. (33). 1885. A B

Peabody, Selim H., 608 Rand McNally Building, Chicago, Ill. (17). 1885. D B F

Peckham, S. F., 159 Olney St., Providence, R. I. (18). 1875. C B E

Pedrick, Wm. R., Lawrence, Mass. (22). 1875.

Peet, Rev. Stephen D., Mendon, Ill. (24). 1881. H

Pengra, Charles P., M.D., 130 Dartmouth St., Boston, Mass. (34). 1887. F C

Penrose, Dr. R. A. F., State Geol. Surv., Little Rock, Ark. (38). 1890. E

Perkins, Prof. George H., Burlington, Vt. (17). 1882. H F E

Peter, Alfred M., 171 Rose St., Lexington, Ky. (29). 1890. C

Peter, Dr. Robert, Kentucky Geol. Survey, Lexington, Ky. (29). 1881. C

Peters, Edw. T., P. O. Box 265, Washington, D. C. (33). 1889. **I**
Pettee, Prof. William H., Ann Arbor, Mich. (24). 1875. **E**
Phillips, Prof. A. W., New Haven, Conn. (24). 1879.
Phillips, Prof. Francis C., 59 Sherman Ave., Allegheny, Pa. (36). 1889. **C**
Phillips, Henry, jr., 1811 Walnut St., Philadelphia, Pa. (32). 1887. **H I**
Phippen, Geo. D., Salem, Mass. (18). 1874. **F**
Pickering, Prof. E. C., Director of Observatory, Cambridge, Mass. (18), 1875. **A B**
Pilling, James C., Box 591, Washington, D. C. (28). 1882. **F H I**
Pillsbury, Prof. John H., Smith College, Northampton, Mass. (23). 1885. **F H**
Platt, Franklin, Ass't Geologist, 2nd Geol. Survey of Pa., 1319 Walnut St., Philadelphia, Pa. (27). 1882. **E**
Plumb, Charles S., Purdue Univ., La Fayette, Ind. (36). 1890.
Pohlman, Dr. Julius, Buffalo, N. Y. (32). 1884. **E F**
Porter, Thos. C., LL.D., Lafayette College, Easton, Pa. (33). 1887. **F**
Potter, William B., Washington Univ., St. Louis, Mo. (25). 1879.
Powell, Major J. W., U. S. Geologist, 910 M St., N. W., Washington, D. C. (23). 1875. **E H**
Power, Prof. Frederick B., 225 Gregory Ave., Passaic, N. J. (31). 1887. **C**
Prentiss, Prof. A. N., Cornell Univ., Ithaca, N. Y. (35). 1887. **F**
Prentiss, D. Webster, M.D., 1101 14th St. N. W., Washington, D. C. (29). 1882. **F**
Prentiss, Robert W., Prof. of Mathematics and Astronomy, Rutgers College, New Brunswick, N. J. (40). 1891. **A**
Prescott, Prof. Albert B., Ann Arbor, Mich. (23). 1875. **C**
Preston, E. D., Ass't U. S. Coast and Geodetic Survey, Washington, D. C. (37). 1889. **A E**
Pritchett, Henry S., Director Observatory Washington University, St. Louis, Mo. (29). 1881. **A**
Prosser, Charles S., U. S. Geol. Survey, Washington, D. C. (33). 1891. **E F**
Pulsifer, Wm. H., Newton Centre, Mass. (26). 1879. **A H**
Pumpelly, Prof. Raphael, U. S. Geological Survey, Newport, R. I. (17). 1875. **E I**
Putnam, Prof. F. W., Curator Peabody Museum American Archæology and Ethnology, Cambridge, Mass. (Address as Permanent Secretary A. A. A. S., Salem, Mass.) (10). 1874. **H**
Pynchon, Rev. T. R., Trinity Coll., Hartford, Conn. (23). 1875.

Quincy, Edmund, 88 Clinton St., Boston, Mass. (11). 1874.

Rau, Eugene A., Bethlehem, Pa. (33). 1890. **F**
Rauch, Dr. John H., Springfield, Ill. (11). 1875.
Raymond, Rossiter W., 17 Burling Slip, New York, N. Y. (15). 1875. **E I**
Redfield, J. H., 216 W. Logan Square, Philadelphia, Pa. (1). 1874. **F**

Reed, E. Baynes, London, Ontario, Can. (27). 1882.
Rees, Prof. John K., Columbia College, New York, N. Y. (26). 1878. **A E B**
Reese, Jacob, 400 Chestnut St., Philadelphia, Pa. (33). 1891. **D B**
Remsen, Prof. Ira, Johns Hopkins Univ., Baltimore, Md. (22). 1875. **C**
Rice, John M., Northborough, Mass. (25). 1881. **A D**
Rice, Prof. Wm. North, Wesleyan University, Middletown, Conn. (18). 1874. **E F**
Richards, Prof. Charles B., 313 York St., New Haven, Conn. (33). 1885. **D**
Richards, Edgar, 113 E. 30 St., New York, N. Y. (31). 1886. **C**
Richards, Prof. Robert H., Mass. Inst. Tech., Back Bay, Boston, Mass. (22). 1875. **D**
Richards, Mrs. Robert H., Prof. Mass. Inst. of Tech., Back Bay, Boston, Mass. (23). 1878. **C**
Richardson, Clifford, Office of the Engineer Commissioner, Washington D. C. (30). 1884. **C**
Ricketts, Prof. Palmer C., 17 1st St., Troy, N. Y. (33). 1887. **D A**
Ricketts, Prof. Pierre de Peyster, 104 John St., New York, N. Y. (26). 1880. **C D E**
Riley, Prof. C. V., U. S. Entomologist, 1700 13th St. N. W., Washington, D. C. (17). 1874. **F H I**
Risteen, Allen D., Hartford, Conn. (38). 1890. **A B D**
Ritchie, E. S., Newton Highlands, Mass. (10). 1877. **B**
Roberts, Prof. Isaac P., Ithaca, N. Y. (33). 1886. **I**
Robinson, Prof. Franklin C., Brunswick, Me. (29). 1889. **C D**
Robinson, Prof. S. W., Univ. of Ohio, Columbus, Ohio (30). 1883. **D B A**
Rockwell, Gen. Alfred P., Manchester, Mass. (10). 1882. **E**
Rockwell, Chas. H., Box 293, Tarrytown, N. Y. (28). 1883. **A D**
Rockwood, Prof. Charles G., jr., College of New Jersey, Princeton, N. J. (20). 1874. **A E B D**
Rogers, Fairman, 134 S. Fourth St., Philadelphia, Pa. (11). 1874.
Rogers, Prof. W. A., Colby Univ., Waterville, Me. (15). 1875. **A B D**
Rominger, Dr. Carl, Ann Arbor, Mich. (21). 1879. **E**
Rood, Prof. O. N., Columbia College, New York, N. Y. (14). 1875. **B**
Ross, Waldo O., 1 Chestnut St., Boston, Mass. (29). 1882.
Rowland, Prof. Henry A., Baltimore, Md. (29). 1880. **B**
Runkle, Prof. J. D., Mass. Institute of Technology, Boston, Mass. (2). 1875. **A D**
Rusby, Henry H., M.D., 169 Mt. Prospect Ave., Newark, N. J. (36). 1890. **F**
Russell, I. C., U. S. Geological Survey, Washington, D. C. (25). 1882. **E**
Rutherford, Lewis M., 175 Second Ave., New York, N. Y. (13). 1875.
Ryan, Harris J., Cornell Univ., Ithaca, N. Y. (38). 1890. **B**

Sadtler, Saml P., Ph D., 1042 Drexel Building, Philadelphia, Pa. (22). 1875. **C**

Saegmuller, G N., 132 Maryland Ave., S. W., Washington, D. C. (38). 1891. **A B**

Safford, Dr. James M., Nashville, Tenn. (6). 1875. **E C F**

Salisbury, Prof. R. D., Beloit College, Beloit, Wis. (37). 1890. **B E**

Salmon, Daniel E., Dep't of Agric., Washington, D. C. (31). 1885. **F**

Saunders, William, Director Agricultural Experiment Station, Ottawa, Ontario, Can. (17). 1874. **F**

SCHAEBERLE, J. M., Astronomer in the Lick Observatory, San José, Cal. (34). 1886. **A**

Schanck, Prof. J. Stillwell, Princeton, New Jersey (4). 1882. **C B H**

Schott, Charles A., U. S. Coast and Geodetic Survey Office, Washington, D. C. (8). 1874. **A**

Schweinitz, Dr. E. A. v., Dep't of Agriculture, Washington, D. C. (36). 1889. **C**

Schweitzer, Prof. Paul, State University of Missouri, Columbia, Mo. (24). 1877. **C B**

Scovell, M. A., Director Kentucky Agricultural Experiment Station, Lexington, Ky. (35). 1887.

Scribner, F. Lamson, Dep't of Agric., Washington, D. C. (34). 1887. **F**

SCUDDER, SAMUEL H., Cambridge, Mass. (13). 1874. **F**

Seaman, W. H., Chemist, 1424 11th St. N. W., Washington, D. C. (23). 1874. **C F**

Searle, Prof. Geo. M., Catholic Univ., Washington, D. C. (39). 1891. **A**

See, Horace, 1 Broadway, New York, N. Y. (34). 1886. **D**

Seiler, Carl, M.D., 1346 Spruce St., Philadelphia, Pa. (29). 1882. **F B**

Seymour, Arthur Bliss, Cambridge, Mass. (36). 1890. **F**

Seymour, William P., M.D., 105 Third St., Troy, N. Y. (19). 1888. **H**

Sharples, Stephen P., 13 Broad St., Boston, Mass. (29). 1884. **C**

Shimer, Porter W., E.M., Easton, Pa. (38). 1889. **C**

Shutt, Frank T., M.A., F.E.C., F.C.S., Chemist to the Dominion Experimental Farms, Ottawa, Ontario, Can. (38). 1889. **C**

Sias, Solomon, M.D., Schoharie, Schoharie Co., N. Y. (10). 1874.

Sigsbee, Chas. D., Comd'r U. S. N., U. S. Naval Acad., Annapolis, Md. (28). 1882. **D E**

Silliman, Prof. Justus M., Lafayette Coll., Easton, Pa. (19). 1874. **D E**

Simonds, Prof. Frederic W., Univ. of Texas, Austin, Texas (25). 1888 **E F**

Skinner, Joseph J., Massachusetts Inst. Technology, Boston, Mass. (23). 1880. **B**

Smiley, Charles W., U. S. Fish Commission, Washington, D. C. (28). 1883. **I**

Smith, Prof. Chas. J., 35 Adelbert St., Cleveland, Ohio (32). 1885. **A B**

Smith, Prof. Edgar F., Univ. of Penn., Philadelphia, Pa. (33). 1891. **C**

Smith, Edwin, Ass't U. S. Coast and Geodetic Survey, Washington, D. C. (30). 1882. **A B**

Smith, Prof. Erastus G., Beloit College, Beloit, Wis. (34). 1887. **C**

Smith, Erwin F., Dep't of Agric., Washington, D. C. (34). 1890. **F**

Smith, Prof. Eugene A., University, Ala. (20). 1877. **E C**
Smith, John B., Professor of Entomology, Rutgers College, New Brunswick, N. J. (32). 1884. **F**
SMITH, QUINTIUS C., M.D., No. 617 Colo. St., Austin, Texas (26). 1881. **F**
Smith, Prof. S. I., Yale College, New Haven, Conn. (18). 1875. **F**
Smith, Dr. Theobald, Bureau of Animal Industry, U. S. Dep't of Agric., Washington, D. C. (35). 1887. **F**
Smock, Prof. John Conover, Trenton, N. J. (23). 1879. **E**
Snow, Prof. F. H., Lawrence, Kan. (29). 1881. **F E**
Snow, Benj. W., Cornell Univ., Ithaca, N. Y. (35). 1889. **B**
Snyder, Henry, B.Sc., Miami Univ., Oxford, Ohio (30). 1888. **B C**
Snyder, Prof. Monroe B., High School Observatory, Philadelphia, Pa. (24). 1882. **A B**
Soule, R. H., Roanoke, Va. (33). 1886. **D**
Spalding, Volney M., Ann Arbor, Mich. (34). 1886. **F**
Spencer, Guilford L., Department Agriculture, Washington, D. C. (36). 1889. **C D**
Spencer, Prof. J. William, 7 Church St., Atlanta, Ga. (28). 1882. **E**
Spencer, John W., Paxton, Sullivan Co., Ind. (20). 1874.
Springer, Dr. Alfred, Box 621, Cincinnati, Ohio (24). 1880. **C**
Staley, Cady, LL.D., Pres. Case School of Applied Sciences, Cleveland, Ohio (37). 1888. **D**
Stearns, R. E. C., care Smithsonian Institution, Washington, D. C. (18). 1874. **F**
Steere, Prof. Jos. B., Ann Arbor, Mich. (34). 1890. **F H**
STEPHENS, W. HUDSON, Lowville, N. Y. (18). 1874. **E H**
Sternberg, Col. George M., Surgeon U. S. A., Army Building, 39 Whitehall St., New York, N. Y. (24). 1880. **F**
Stevens, W. LeConte, 170 Joralemon St., Brooklyn, N. Y. (29). 1882. **B A C**
Stevenson, Prof. John J., Univ. of New York, New York, N. Y. (36). 1888.
Stockwell, John N., 1008 Case Avenue, Cleveland, Ohio (18). 1875. **A**
Stoddard, Prof. John T., Smith College, Northampton, Mass. (35). 1889. **B C**
Stokes, Henry Newlin, Ph.D., U. S. Geol. Survey, Washington, D. C. (38). 1891. **C E**
Stone, George H., Colorado Springs, Col. (29). 1882. **E F**
Stone, Mrs. Leander, Pres. Y. W. C. A., 3352 Indiana Avenue, Chicago, Ill. (22). 1874. **F E**
Stone, Ormond, Director Leander McCormick Observatory, University of Virginia, Va. (24). 1876. **A**
Stone, Prof. Winthrop E., Purdue Univ., La Fayette, Ind. (39). 1891. **C**
Story, Prof. Wm. E., Clark Univ., Worcester, Mass. (29). 1881. **A**
Stowell, Prof. T. B., Potsdam, N. Y. (28). 1885. **F**
Stringham, Prof. Irving, Univ. of Cal., Berkeley, Cal. (33). 1885. **A**
Stuart, Prof. A. P. S., Lincoln, Nebraska (21). 1874. **C**
Sturtevant, E. Lewis, M.D., So. Framingham, Mass. (29). 1882. **F**

Swallow, Prof. C. G., 19½ Main St., Helena, Montana (10). 1875.
Swift, Lewis, Ph.D., Rochester, N. Y. (29). 1882. **A**

Tainter. Charles Sumner, 1843 S, cor. 19 St., Washington, D. C. (29). 1881. **B D A**
Taylor, H. C., Commander U. S. N. (30). 1889.
Taylor, Thos., M.D., Department of Agriculture, Washington, D. C. (29). 1885. **F C**
Taylor, William B., Smithsonian Institution, Washington, D. C. (29). 1881. **B A**
Terry, Prof. N. M., U. S. Naval Academy, Annapolis, Md. (23). 1874. **B**
Thomas, Benj. F., Ph.D., State Univ., Columbus, Ohio (29). 1882. **B A**
Thomson, Elihu, Thomson-Houston Electric Co., Lynn, Mass. (37). 1888. **B**
Thomson, Wm., M.D., 1426 Walnut St., Philadelphia, Pa. (33). 1885. **B**
Thruston, Gates Phillips, Nashville, Tenn. (38). 1890. **H**
Thurston, Prof. R. H., Sibley College, Cornell University, Ithaca, N. Y. (23). 1875. **D**
Tittmann, Otto H., U. S. Coast and Geodetic Survey Office, Washington, D. C. (24). 1888. **A**
Todd, Prof. David P., Director Lawrence Observatory, Amherst College, Amherst, Mass. (27). 1881. **A B D**
Todd, Prof. James E., Tabor, Fremont Co., Iowa (22). 1886. **E F**
Towne, Henry R., Pres. Yale and Towne Manufacturing Co., Stamford, Conn. (33). 1888. **D B**
Townshend, Prof. N. S., Ohio State Univ., Columbus, Ohio (17). 1881. **F H**
Tracy, Sam'l M., Agricultural College, Miss. (27). 1881. **F**
Traphagen, Frank W., Ph.D., Prof. of Chem., The College of Montana, Deer Lodge City, Montana (35). 1889. **C F E**
Trelease, Dr. Wm., Director Missouri Botanical Gardens, St. Louis, Mo. (39). 1891 **F**
Trimble, Prof. Henry, 145 No. 10 St., Philadelphia, Pa. (34). 1889. **C**
True, Fred W., U. S. National Museum, Washington, D. C. (28). 1882. **F**
Trumbull, Dr. J. Hammond, Hartford, Conn. (29). 1882. **H**
Tucker, Willis G., M.D., Albany Med. Coll , Albany, N. Y. (29). 1888. **C**
TUCKERMAN, ALFRED, Ph.D., 61 Kay St., Newport, R. I. (39). 1891. **C**
Tuttle, Prof. Albert H., Univ. of Virginia, Va. (17). 1874. **F**
Twitchell, E., 559 W. Seventh St., Cincinnati, Ohio (39). 1891. **C**

Uhler, Philip R., 254 W. Hoffman St., Baltimore, Md. (19). 1874. **F E**
Underwood, Prof. Lucien M., 411 Comstock Ave., Syracuse, N. Y. (33). 1885. **F**
Upham, Warren, 36 Newbury St., Somerville, Mass. (25). 1880. **E**
Upton, Winslow, Brown Univ., Providence, R. I. (29). 1883. **A**

Van der Weyde, P. H., M.D., 236 Duffield St., Brooklyn, N. Y. (17). 1874. **B**
Van Dyck, Prof. Francis Cuyler, New Brunswick, N. J. (28). 1882. **B C F**

Van Hise, Charles R., Univ. of Wisconsin, Madison, Wis. (37). 1890.
Van Vleck, Prof. John M., Middletown, Conn. (23). 1875. **A**
Vasey, George, M.D., Dep't of Agric., Washington, D. C. (32). 1889. **F**
Venable, Prof. F. P., Chapel Hill, N. C. (39). 1891. **C**
Very, Samuel W., Lieut. Comdr. U. S. N., Robeson St., Jamaica Plain, Mass. (28). 1886. **A B**
Vining, Edward P., 816 Olive St., St. Louis, Mo. (32). 1887. **H**
Vogdes, A. W., Fort Canby, Pacific Co., Washington (32). 1885. **E F**

Wachsmuth, Charles, 111 Marietta St., Burlington, Iowa (30). 1884. **E F**
Wadsworth, Prof. M. Edward, Ph.D., Director of the Michigan Mining School, State Geologist of Michigan, Houghton, Mich. (23). 1874. **E**
Walcott, Charles D., U. S. Geological Survey, Washington, D. C. (25). 1882. **E F**
Waldo, Prof. Clarence A., Greencastle, Ind. (37). 1889. **A**
Wallace, Wm., Ansonia, Conn. (28). 1882.
WALLER, E., School of Mines, Columbia College, New York, N. Y. (23). 1874.
Walmsley, W. H., 1016 Chestnut St., Philadelphia, Pa. (28). 1883. **F**
Wanner, Atreus, York, York Co., Pa. (36). 1890. **H**
Ward, Prof. Henry A., Rochester, N. Y. (13). 1875. **F E H**
Ward, Lester F., U. S. Geological Survey, Washington, D. C. (26). 1879. **E F**
Ward, Dr. R. H., 53 Fourth St., Troy, N. Y. (17). 1874. **F B**
Ward, Wm. E., Port Chester, N. Y. (36). 1889. **D**
Warder, Prof. Robert B., Howard Univ., Washington, D. C. (19). 1881. **C B**
WARNER, JAMES D., 199 Baltic St., Brooklyn, N. Y. (18). 1874. **A B**
Warner, Worcester R., 887 Case Ave., Cleveland, Ohio (33). 1888. **A B D**
Warren, Cyrus M., Brookline, Mass. (29). 1882. **C**
Warren, Dr. Joseph W., Bryn Mawr College, Bryn Mawr, Pa. (31). 1886. **F**
Warren, Prof. S. Edward, Newton, Mass. (17). 1875. **A-I**
WATSON, PROF WM., 107 Marlborough St., Boston, Mass. (12). 1884. **A**
Webb, Prof. J. Burkitt, Stevens Inst., Hoboken, N. J. (31). 1883. **D B A**
Weber, Prof. Henry A., Ohio State Univ., Columbus, Ohio (35). 1888. **F**
Webster, F. M., La Fayette, Ind. (35). 1890.
Webster, Prof. N. B., Grove House, Vineland, N. J. (7). 1874. **B C E**
Weed, Clarence M., Hanover, N. H. (38). 1890.
Weston, Edward, 645 High St., Newark, N. J. (33). 1887. **B C D**
Wheatland, Dr. Henry, President Essex Inst., Salem, Mass. (1). 1874.
Wheeler, Prof. C. Gilbert, 81 Clark St., Chicago, Ill. (18). 1883. **C E**
Wheeler, Orlando B., Office Mo. River Com., 1515 Lucas Place, St. Louis, Mo. (24). 1882. **A D**
White, Prof. C. A., Le Droit Park, Washington, D. C. (17). 1875. **E F**
White, Prof. H. C., Univ. of Georgia, Athens, Ga. (29). 1885. **C**
WHITE, PROF. I. C., Univ. of W. Va., Morgantown, W. Va. (25). 1882. **E**

Whiteaves, J. F., Geol. Survey, Ottawa, Ontario, Can. (31). 1887. **E F**
Whitfield, R. P., American Museum Natural History, 77th St. & 8th Avenue, New York, N. Y. (18). 1874. **E F H**
Whiting, Miss Sarah F., Wellesley College, Wellesley, Mass. (31). 1883. **B A**
Whitman, Prof. Frank P., Adelbert College, Cleveland, Ohio (33). 1885. **A B**
Wilbur, A. B., Middletown, N. Y. (23). 1874.
Wiley, Prof. Harvey W.. Dep't of Agric., Washington, D.C. (21). 1874. **C**
Williams, Benezette, 171 La Salle St., Chicago, Ill. (33). 1887. **D**
Williams, Charles H., M.D., C. B. and Q. Gen. Office, Adams St., Chicago, Ill. (22). 1874.
Williams, Geo. Huntington, Johns Hopkins Univ., Baltimore, Md. (33). 1886. **E**
Williams, Henry Shaler, Cornell Univ., Ithaca, N. Y. (18). 1882. **E F**
Williams, Prof. Henry W., 15 Arlington St., Boston, Mass. (11). 1874. **H F**
Williams, J. Francis, Salem, N. Y. (31). 1890. **C E**
Williams, Prof. S. G., Cornell Univ., Ithaca, N. Y. (33). 1885. **E**
Willis, Bailey, U. S. Geol. Survey, Washington, D. C. (36). 1890.
Willmott, Arthur B., 6 Little's Block, Cambridge, Mass. (38). 1890.
Willson, Prof. Frederick N., Princeton, N. J. (33). 1887. **A D**
Willson, Robert W., Cambridge, Mass. (30). 1890. **B A**
Wilson, Sir Daniel, President University College, 117 Bloor St., Toronto, Ontario, Canada (25). 1876. **H E**
Wilson, Joseph M., Room 1036, Drexel Building, Philadelphia, Pa. (33). 1886. **D**
Wilson, Thomas, U. S. Nat'l Museum, Washington, D. C. (36). 1888. **H**
Wilson, William Powell, 640 No. 32nd St., Philadelphia, Pa. (38). 1889. **F**
Winchell, Horace V., 10 State St., Minneapolis, Minn. (34). 1890. **E C**
Winchell, Prof. N. H., Univ. of Minnesota, Minneapolis, Minn. (19). 1874. **E H**
Wing, Henry H., Cornell Univ., Experimental Station, Ithaca, N. Y. (38). 1890.
Winlock, Wm. C., Smithsonian Institution, Washington, D. C. (33). 1885. **A B**
Winslow, Arthur, State Geologist, Jefferson City, Mo. (37). 1889. **E**
Withers, Prof. W. A., Agric. and Mechanical College, Raleigh, N. C. (33). 1891. **C**
Witthaus, Dr. R. A., 410 E. 26th St., New York, N. Y. (35). 1890.
Wood, Prof. De Volson, Hoboken, N. J. (29). 1881.
Woodbury, C. J. H., 31 Milk St., Boston, Mass. (29). 1884. **D**
Woodward, Prof. Calvin M., 1761 Missouri Ave., St. Louis, Mo. (32). 1884. **D A I**
Woodward, R. S., U. S. Geol. Survey, Washington, D. C. (33). 1885. **A B D**

Wormley, T. G., Univ. of Pennsylvania, Philadelphia, Pa. (20). 1878.
Worthen, W. E., 63 Bleeker St., New York, N. Y. (36). 1888. **D**
Wrampelmeier, Theo. J., Berkeley, Cal. (34). 1887. **C**
Wright, Prof. Albert A., Oberlin College, Oberlin, Ohio (24). 1880. **E F**
Wright, Prof. Arthur W., Yale Coll., New Haven, Conn. (14). 1874. **A B**
Wright, Rev. Geo. F., Oberlin College, Oberlin, Ohio (29). 1882. **E**
Wright, Prof. R. Ramsay, Toronto, Ontario, Can. (38). 1890. **F**
Wright, Prof. Thos. W., Union College, Schenectady, N. Y. (36). 1889.
Würtele, Rev. Louis C., Acton Vale, P. Q., Can. (11). 1875. **E**

Youmans, Wm. Jay, M.D., Popular Science Monthly, 1–5 Bond St., New York, N. Y. (28). 1889. **F C**
Young, A. V. E., Northwestern Univ., Evanston, Ill. (33). 1886. **C B**
Young, C. A., Prof. of Astronomy, College of New Jersey, Princeton, N. J. (18). 1874. **A B D**

Zalinski, E. L., Capt. 5th Artillery, U. S. A., Fort Hamilton, New York Harbor, N. Y. (36). 1891. **D**
Ziwet, Alexander, 6 N. Division St., Ann Arbor, Mich. (38). 1890. **A**

[781 FELLOWS.]

SUMMARY.—PATRONS, 3; CORRESPONDING MEMBERS, 2; MEMBERS, 1265; HONORARY FELLOWS, 4; FELLOWS, 781.
JULY 8, 1892, TOTAL NUMBER OF MEMBERS OF THE ASSOCIATION, 2055.

DECEASED MEMBERS.

[Unless by special vote of the Council, the names of those only who are members of the Association at the *time of their decease* will be included in this list. Information of the date and place of birth and death, to fill blanks in this list, is requested by the Permanent Secretary.]

Abbe, George W., New York, N. Y. (23). Died Sept. 25, 1879.

Abert, John James, Washington, D. C. (1). Born in Shepherdstown, Va., Sept. 17, 1788. Died in Washington, D. C., Sept. 27, 1863.

Adams, Charles Baker, Amherst, Mass. (1). Born in Dorchester, Mass., Jan. 11, 1814. Died in St. Thomas, W. I., Jan. 19, 1853.

Adams, Edwin F., Charlestown, Mass. (18).

Adams, Samuel, Jacksonville, Ill. (18). Born Dec. 19, 1806. Died April 29, 1877.

Agassiz, Louis, Cambridge, Mass. (1). Born in Parish of Motier, Switzerland, May 28, 1807. Died in Cambridge, Mass., Dec. 14, 1873.

Ainsworth, J. G., Barry, Mass. (14).

Alexander, Stephen, Princeton, N. J. (1). Born Sept. 1, 1806. Died June 25, 1883.

Allen, Thomas, St. Louis, Mo. (27). Died April 8, 1882.

Allen, Zachariah, Providence, R. I. (1). Born in Providence, R. I., Sept. 15, 1795. Died March 17, 1882.

Allston, Robert Francis Withers, Georgetown, S. C. (3). Born in All Saints Parish, S. C., April 21, 1801. Died near Georgetown, S. C., April 7, 1864.

Alvord, Benjamin, Washington, D. C. (17). Born in Rutland, Vt., Aug. 18, 1813. Died Oct. 16, 1884.

Ames, M. P., Springfield, Mass. (1). Born in 1803. Died April 23, 1847.

Andrews, Ebenezer Baldwin, Lancaster, Ohio (7). Born in Danbury, Conn., April 29, 1821. Died in Lancaster, Ohio, Aug. 14, 1880.

Anthony, Charles H., Albany, N. Y. (6). Died in 1874.

Appleton, Nathan, Boston, Mass. (1). Born in New Ipswich, N. H., Oct. 6, 1779. Died July 14, 1861.

Armstrong, John W., Fredonia, N. Y. (24).

Ashburner, Charles A., Pittsburgh, Pa. (31). Died Dec. 24, 1889.

Ashburner, Wm., San Francisco, Cal. (29). Born in Stockbridge, Mass., March, 1831. Died in San Francisco, Cal., April 20, 1887.

Atwater, Mrs. S. T., Chicago, Ill. (17). Born Aug. 8, 1812. Died April 11, 1878.

Aufrecht, Louis, Cincinnati, Ohio (30).

Baba, Tatui, New York, N. Y. (36).

Babbitt, Miss Franc E., Coldwater, Mich. (32). Died near Coldwater, Mich., July 6, 1891, aged 67.

Bache, Alexander Dallas, Washington, D. C. (1). Born in Philadelphia, Pa., July 19, 1806. Died at Newport, R. I., Feb. 17, 1867.

Bache, Franklin, Philadelphia, Pa. (1). Born in Philadelphia, Pa., Oct. 25, 1792. Died March 19, 1864.

Bailey, Jacob Whitman, West Point, N. Y. (1). Born in Auburn, Mass., April 29, 1811. Died in West Point, N. Y., Feb. 26, 1857.

Baird, Spencer Fullerton, Washington, D. C. (1). Born in Reading, Pa., Feb. 3, 1823. Died in Wood's Holl, Mass., Aug. 19, 1887.

Bardwell, F. W., Lawrence, Kan. (13). Died in 1878.

Barnard, F. A. P., New York, N. Y. (7). Born in Sheffield, Mass., May 5, 1809. Died in New York, April 27, 1889.

Barnard, John Gross, New York, N. Y. (14). Born in Sheffield, Mass., May 19, 1815. Died in Detroit, Mich., May 14, 1882.

Barrett, Dwight H., Baltimore, Md. (36). Died in March, 1889.

Barrett, Moses, Milwaukee, Wis. (21). Died in 1873.

Barry, Redmond, Melbourne, Australia (25).

Bassett, Daniel A., Los Angeles, Cal. (29). Born Dec. 8, 1819. Died May 26, 1887.

Bassnett, Thomas, Jacksonville, Fla. (8). Born 1807. Died in Jacksonville, Fla., Feb. 16, 1886.

Batchelder, John Montgomery, Cambridge, Mass. (8). Born in New Ipswich, N. H. Oct. 13, 1811. Died in Cambridge, July 3, 1892.

Bayne, Herbert Andrew, Kingston, Ont., Can. (29). Born in Londonderry, Nova Scotia, Aug. 16, 1846. Died in Pictou, Can., Sept. 16, 1886.

Beach, J. Watson, Hartford, Conn. (23). Born Dec. 28, 1823. Died Mar. 16, 1887.

Beck, C. F., Philadelphia, Pa. (1).

Beck, Lewis Caleb, New Brunswick, N. J. (1). Born in Schenectady, N. Y., Oct. 4, 1798. Died April 20, 1853.

Beck, Theodoric Romeyn, Albany, N. Y. (1). Born in Schenectady, N. Y., Aug. 11, 1791. Died in Utica, N. Y., Nov. 19, 1855.

Beckwith, Henry C., Coleman's Station, N. Y. (29). Died July 12, 1885.

Belfrage, G. W., Clifton, Texas (29). Died Dec. 7, 1882.

Belknap, William B., Louisville, Ky. (29).

Bell, Samuel N., Manchester, N. H. (7). Born in Chester, N. H., March 25, 1829. Died in Manchester, N. H., Feb. 8, 1889.

Belt, Thomas, London, Eng. (27). Died Sept. 8, 1878.

Benedict, George Wyllys, Burlington, Vt. (16). Born Jan. 11, 1796. Died Sept. 23, 1871.

Bicknell, Edwin, Boston, Mass. (18). Born in 1830. Died March 19, 1877.

Binney, Amos, Boston, Mass. (1). Born in Boston, Mass., Oct. 18, 1803. Died in Rome, Feb. 18, 1847.

Binney, John, Boston, Mass. (3).

Blackie, Geo. S., Nashville, Tenn. (26).

Blair, Henry W., Washington, D. C. (26). Died Dec. 15, 1884.

Blake, Eli Whitney, New Haven, Conn. (1). Born Jan. 27, 1795. Died Aug. 18, 1886.

Blake, Francis C., Mansfield Valley, Pa. (29). Died Feb. 21, 1891.

Blake, Homer Crane, New York, N. Y. (28). Born in Cleveland, Ohio, Feb. 1, 1822. Died in New York, N. Y., Jan. 20, 1880.
Blanding, William, ——, R. I. (1).
Blatchford, Thomas W., Troy, N. Y. (6).
Blatchley, Miss S. L., New Haven, Conn. (19). Died March 13, 1873.
Boadle, John, Haddonfield, N. J. (20). Born in 1805. Died in July, 1878.
Bomford, George, Washington, D. C. (1). Born in New York, N. Y., 1780. Died in Boston, Mass., March 25, 1848.
Bowditch, Henry Ingersoll, Boston, Mass. (2). Born in Salem, Mass., Aug. 9, 1808. Died in Boston, Mass., Jan. 14, 1892.
Bowles, Miss Margaretta, Columbia, Tenn. (26). Died July, 1887.
Bowron, James, South Pittsburg, Tenn. (26). Died in Dec., 1877.
Bradley, Leverette, Jersey City, N. J. (15). Died in 1875.
Braithwaite, Jos., Chambly, C. W. (11).
Breckinridge, S. M., St. Louis, Mo. (27). Died May 28, 1891.
Briggs, Albert D., Springfield, Mass. (13). Died Feb. 20, 1881.
Briggs, Robert, Philadelphia, Pa. (29). Born May 18, 1822. Died July 24, 1882.
Brigham, Charles Henry, Ann Arbor, Mich. (17). Born in Boston, Mass., July 27, 1820. Died Feb. 19, 1879.
Bross, William, Chicago, Ill. (7). Died in 1890.
Brown, Andrew, Natchez, Miss. (1).
Brown, Horace, Salem, Mass. (27). Died in July, 1883.
Bull, John, Washington, D. C. (31). Born Aug. 1, 1819. Died June 9, 1884.
Bulloch, Walter H., Chicago, Ill. (30).
Burbank, L. S., Woburn, Mass. (18).
Burgess, Edward, Boston, Mass. (22). Born in Barnstable, Mass., June 30, 1848. Died in Boston, July 12, 1891.
Burke, Joseph Chester, Middletown, Conn. (29). Died in 1885.
Burnap, George Washington, Baltimore, Md. (12). Born in Merrimack, N. H., Nov. 30, 1802. Died in Philadelphia, Pa., Sept. 8, 1859.
Burnett, Waldo Irving, Boston, Mass. (1). Born in Southborough, Mass., July 12, 1828. Died in Boston, Mass., July 1, 1854.
Butler, Thomas Belden, Norwalk, Conn. (10). Born Aug. 22, 1806. Died June 8, 1873.

Cairns, Frederick A., New York, N. Y. (27). Died in 1879.
Campbell, Mrs. Mary H., Crawfordsville, Ind. (22). Died Feb. 27, 1882.
Carpenter, Thornton, Camden, S. C. (7).
Carpenter, William M., New Orleans, La. (1).
Case, Leonard, Cleveland, Ohio (15). Born June 27, 1820. Died Jan. 5, 1880.
Case, William, Cleveland, Ohio (6).
Caswell, Alexis, Providence, R. I. (2). Born Jan. 29, 1799. Died in Providence, R. I., Jan. 8, 1877.
Chadbourne, Paul Ansel, Amherst, Mass. (10). Born in North Berwick, Me., Oct. 21, 1823. Died Feb. 23, 1883.
Chapman, Nathaniel, Philadelphia, Pa. (1). Born in Alexandria Co., Va., May 28, 1780. Died July 1, 1853.

Chase, Pliny Earle, Haverford College, Pa. (18). Born in Worcester, Mass., Aug. 18, 1820.

Chase, Stephen, Hanover, N. H. (2). Born in 1813. Died Aug. 5, 1851.

Chauvenet, William, St. Louis, Mo. (1). Born May 24, 1819. Died Dec. 13, 1870.

Cheesman, Louis Montgomery, Hartford, Conn. (32). Born in 1858. Died in Jan., 1885.

Cheney, Miss Margaret S., Jamaica Plain, Mass. (29). Died in 1882.

Chevreul, Michel Eugène, Paris, France (35). Born in Angiers, France, Aug. 31, 1786. Died April 9, 1889.

Clapp, Asahel, New Albany, Ind. (1). Born Oct. 5, 1792. Died Dec. 15, 1862.

Clark, Henry James, Cambridge, Mass. (13). Born in Easton, Mass., June 22, 1826. Died in Amherst, Mass., July 1, 1873.

Clark, Joseph, Cincinnati, Ohio (5).

Clark, Patrick, Rahway, N. J. (33). Died March 5, 1887.

Clarke, A. B., Holyoke, Mass. (13).

Cleaveland, C. H., Cincinnati, Ohio (9).

Cleveland, A. B., Cambridge, Mass. (2).

Coffin, James Henry, Easton, Pa. (1). Born in Northampton, Mass., Sept. 6, 1806. Died Feb. 6, 1873.

Coffin, John H. C., Washington, D. C. (1). Born in Wiscasset, Maine, Sept. 14, 1815. Died in Washington, D. C., Jan. 8, 1890.

Coffinberry, Wright Lewis, Grand Rapids, Mich. (20). Born in Lancaster, Ohio, April 5, 1807. Died in Grand Rapids, Mich., March 26, 1889.

Colburn, E. M., Peoria, Ill. (33). Born in Rome, N. Y., Sept. 13, 1813. Died in Peoria, Ill., May 29, 1890.

Cole, Frederick, Montreal, Can. (31). Died in 1887.

Cole, Thomas, Salem, Mass. (1). Born Dec. 24, 1779. Died June 24, 1852.

Coleman, Henry, Boston, Mass. (1).

Collins, Frederick, Washington, D. C. (28). Born Dec. 5, 1842. Died Oct. 27, 1881.

Conrad, Timothy Abbott, Philadelphia, Pa. (1). Born in New Jersey, June 21, 1803. Died Aug. 9, 1877.

Cook, George H., New Brunswick, N. J. (4). Born in Hanover, Morris County, in 1818. Died in New Brunswick, N. J., Sept. 22, 1889.

Cooke, Caleb, Salem, Mass. (18). Born Feb. 15, 1838. Died June 5, 1880.

Cooper, William, Hoboken, N. J. (9). Died in 1864.

Cope, Mary S., Germantown, Pa. (33). Born in Germantown, Pa., July 13, 1853. Died in Germantown, Jan. 4, 1888.

Copes, Joseph S., New Orleans, La. (11). Born Dec. 9, 1811. Died March 1, 1885.

Corning, Erastus, Albany, N. Y. (6). Born in Norwich, Conn., Dec. 14, 1794. Died April 9, 1872

Costin, M. P., Fordham, N. Y. (30). Died June 8, 1884.

Couper, James Hamilton, Darien, Ga. (1). Born March 5, 1794. Died July 3, 1866.

Cramp, John Mockett, Wolfville, N. S. (11). Born in Kent, England, July 25, 1796. Died Dec. 6, 1881.

Crehore, John D., Cleveland, Ohio (24).

Crocker, Charles F., Lawrence, Mass. (22). Died in July, 1881.

Crocker, Miss Lucretia, Boston, Mass. (29). Died in 1886.

Crosby, Alpheus, Salem, Mass. (10). Born in Sandwich, N. H., Oct. 13, 1810. Died April 17, 1874.

Crosby, Thomas Russell, Hanover, N. H. (18). Born Oct. 22, 1816. Died March 1, 1872.

Crosier, Edward S., New Albany, Ind. (29). Died in June, 1891.

Croswell, Edwin, Albany, N. Y. (6). Born in Catskill, N. Y., May 29, 1797. Died June 13, 1871.

Crow, Wayman, St. Louis, Mo. (27). Born March 7, 1808. Died May 10, 1885.

Cummings, Joseph, Evanston, Ill. (13). Born in Falmouth, Me., March 3, 1817. Died in Evanston, Ill., May 7, 1890.

Curry, W. F., Geneva, N. Y. (11).

Curtis, Josiah, Washington, D. C. (18). Died Aug. 1, 1883.

Da Costa, Chas. M., New York, N. Y. (36). Died in 1890.

Dalrymple, Edwin Augustine, Baltimore, Md. (11). Born in Baltimore, Md., June 4, 1817. Died Oct. 30, 1881.

Danforth, Edward, Elmira, N. Y. (11). Died in Elmira, N. Y., June 13, 1888.

Davenport, H. W., Washington, D. C. (30).

Day, Austin G., New York, N. Y. (29). Died Dec. 28, 1889.

Dayton, Edwin A., Madrid, N. Y. (7). Born in 1827. Died June 24, 1873.

Dean, Amos, Albany, N. Y. (6). Born in Barnard, Vt., Jan. 16, 1803. Died Jan. 26, 1868.

Dearborn, George H. A. S., Roxbury, Mass. (1).

Dekay, James Ellsworth, New York, N. Y. (1). Born in New York, 1792. Died Nov. 21, 1851.

Delano, Joseph C., New Bedford, Mass. (5). Born Jan. 9, 1796. Died Oct. 16, 1886.

De Laski, John, Carver's Harbor, Me. (18).

Devereux, John Henry, Cleveland, Ohio (18). Born in Boston, Mass., April 5, 1832. Died in Cleveland, Ohio, March 17, 1886.

Dewey, Chester, Rochester, N. Y. (1). Born in Sheffield, Mass., Oct. 25 1781. Died Dec. 15, 1867.

Dexter, G. M., Boston, Mass. (11).

Dillingham, W. A. P., Augusta, Me. (17).

Dimmick, L. N., Santa Barbara, Cal. (29). Died May 31, 1884.

Dinwiddie, Hardaway H., College Station, Texas (32). Died Dec. 11, 1887.

Dinwiddie, Robert, New York, N. Y. (1). Born in Dumfries, Scotland, July 23, 1811. Died in New York, N. Y., July 12, 1888.

Dixwell, Geo. B., Boston, Mass. (29). Died April, 1885.

Doggett, George Newell, Chicago, Ill. (33). Born in Chicago, Ill., Dec. 19, 1858. Died in Fredericksburg, Va., Jan. 15. 1887.

Doggett, Mrs. Kate Newell, Chicago, Ill. (17). Born in Castleton, Vt., Nov. 5, 1828. Died in Havana, Cuba, March 13, 1884.

Doggett, Wm. E., Chicago, Ill. (17). Born Nov. 20, 1820. Died in 1876.

Doolittle, L., Lenoxville, C. E. (11). Died in 1862.

Dorr, Ebenezer Pearson, Buffalo, N. Y. (25). Born in Hartford, Vt. Died in Buffalo, N. Y., April 29, 1882.

Draper, Henry, New York, N. Y. (28). Born in New York, N. Y., March 7, 1837. Died Nov. 20, 1882.

Ducatel, Julius Timoleon, Baltimore, Md. (1). Born in Baltimore, Md., June 6, 1798. Died April 25, 1849.

Duffield, George, Detroit, Mich. (10). Born in Strasburg, Pa., July 4, 1794. Died in Detroit, Mich., June 26, 1869.

Dumont, A. H., Newport, R. I. (14).

Dun, Walter Angus, Cincinnati, Ohio (31). Born March 1, 1857. Died Nov. 7, 1887.

Duncan, Lucius C., New Orleans, La. (10). Born in 1801. Died Aug. 9, 1855.

Dunn, R. P., Providence, R. I. (14).

Dury, Henry M., Nashville, Tenn. (33). Died April 15, 1891.

Eads, James Buchanan, New York, N. Y. (27). Born May 23, 1820. Died March 8, 1887.

Easton, Norman, Fall River, Mass. (14). Died Dec. 21, 1872.

Eaton, James H., Beloit, Wis. (17). Died Jan. 5, 1877.

Elliott, Ezekiel Brown, Washington, D. C. (10). Born July 16, 1823. Died May 24, 1888.

Elsberg, Louis, New York, N. Y. (23). Born in Iserlohn, Prussia, April 2, 1836. Died in New York, N. Y., Feb. 19, 1885.

Elwyn, Alfred Langdon, Philadelphia, Pa. (1). Born in Portsmouth, N. H., July 9, 1804. Died in Philadelphia, Pa., March 15, 1884.

Ely, Charles Arthur, Elyria, Ohio (4).

Emerson, Geo. Barrell, Boston, Mass. (1). Born in Kennebunk, Me., Sept. 12, 1797. Died March 14, 1881.

Emmons, Ebenezer, Williamstown, Mass. (1). Born in Middlefield, Mass., May 16, 1799. Died October 1, 1863.

Engelmann, George, St. Louis, Mo. (1). Born in Frankfort-on-the Main, Germany, Feb. 2, 1809. Died Feb. 4, 1884.

Engstrom, A. B., Burlington, N. J. (1).

Eustis, Henry Lawrence, Cambridge, Mass. (2). Born Feb. 1, 1819. Died Jan. 11, 1885.

Evans, Asher B., Lockport, N. Y. (19). Born in Hector, N. Y., Sept. 21, 1834. Died in Lockport, Sept. 24, 1891.

Evans, Edwin, Streator, Ill. (30). Died May 5, 1889.

Everett, Edward, Boston, Mass. (2). Born in Dorchester, Mass., April 11, 1794. Died in Boston, Mass., Jan. 15, 1865.

Ewing, Thomas, Lancaster, Ohio (5). Born in Ohio Co., Va., Dec. 28, 1789. Died Oct. 26, 1871.

Faries, R. J., Wauwatosa, Wis. (21). Died May 31, 1878.

Farnam, J. E., Georgetown, Ky. (26).

Farquharson, Robert James, Des Moines, Iowa (24). Born July 15, 1824. Died Sept. 6, 1884.

Felton, Samuel Morse, Philadelphia, Pa. (29). Born in Newbury, Mass., July 19, 1809. Died in Philadelphia, Pa., Jan. 24, 1889.

Ferrel, William, Kansas City, Mo. (11). Died Sept. 18, 1891.

Ferris, Isaac, New York, N. Y. (6). Born in New York, Oct. 9, 1798. Died in Roselle, N. J., June 16, 1873.

Feuchtwanger, Lewis, New York, N. Y. (11). Born in Fürth, Bavaria, Jan. 11, 1805. Died in New York, N. Y., June 25, 1876.

Ficklin, Joseph, Columbia, Mo. (20). Born in Winchester, Ky., Sept. 9, 1833. Died in Columbia, Mo., Sept. 6, 1887.

Fillmore, Millard, Buffalo, N. Y. (7). Born in New York, Jan. 7, 1800. Died March 8, 1874.

Fisher, Mark, Trenton, N. J. (10).

Fitch, Alexander, Hartford, Conn. (1). Born March 25, 1799. Died Jan. 20, 1859.

Fitch, O. H., Ashtabula, Ohio (7). Born in 1803. Died Sept. 17, 1882.

Floyd, Richard S., San Francisco, Cal. (34). Died Oct. 17, 1890.

Foote, Herbert Carrington, Cleveland, Ohio (35). Born in 1852. Died in Cleveland, Aug. 24, 1888.

Forbush, E. B., Buffalo, N. Y. (15).

Force, Peter, Washington, D. C. (4). Born in New Jersey, Nov. 26, 1790. Died in Washington, D. C., Jan. 23, 1868.

Ford, A. C., Nashville, Tenn. (26).

Forshey, Caleb Goldsmith, New Orleans, La. (21). Born in Somerset Co., Pa., July 18, 1812. Died in Carrollton, La., July 25, 1881.

Foster, John Wells, Chicago, Ill. (1). Born in Brimfield, Mass., March 4, 1815. Died in Chicago, Ill., June 29, 1873.

Foucon, Felix, Madison, Wis. (18).

Fowle, Wm. Bentley, Boston, Mass. (1). Born in Boston, Mass., Oct. 17, 1795. Died Feb. 6, 1865.

Fox, Charles, Grosse Ile, Mich. (7).

Fox, Joseph G., Easton, Pa. (31). Born in Adams, N. Y., Sept. 7, 1833. Died in Easton, Pa., Dec. 27, 1889.

Frazer, John Fries, Phila., Pa. (1). Born July 8, 1812. Died Oct. 12, 1872.

Freeman, Spencer Hedden, Cleveland, Ohio (29). Born Oct. 3, 1855. Died Feb. 2, 1886.

French, John William, West Point, N. Y. (11). Born in Connecticut, about 1810. Died in West Point, N. Y., July 8, 1871.

Frothingham, Frederick, Milton, Mass. (11).

Fuller, H. Weld, Boston, Mass. (29). Died Aug. 14, 1889.

Garber, A. P., Columbia, Pa. (29). Died Aug. 26, 1881.

Gardiner, Frederic, Middletown, Conn. (23). Born in Gardiner, Me., Oct. 22, 1822. Died in Middletown, Conn., July 17, 1889.

Garrison, H. D., Chicago, Ill. (31). Died in Feb., 1891.

Gavit, John E., New York, N. Y. (1). Born in New York, Oct. 29, 1819. Died in Stockbridge, Mass., Aug. 25, 1874.

Gay, Martin, Boston, Mass. (1). Born in 1804. Died Jan. 12, 1850.

Gibbon, J. H., Charlotte, N. C. (3).

Gillespie, William Mitchell, Schenectady, N. Y. (10). Born in New York, N. Y., 1816. Died in New York, Jan. 1, 1868.

Gilmor, Robert, Baltimore, Md. (1).

Glazier, W. W., Key West, Fla. (29). Died Dec. 11, 1880.

Goldmark, J., New York, N. Y. (29). Died in April, 1882.

Gould, Augustus Addison, Boston, Mass. (11). Born April 23, 1805. Died Sept. 15, 1866.

Gould, Benjamin Apthorp, Boston, Mass. (2). Born in Lancaster, Mass., June 15, 1787. Died Oct. 24, 1859.

Graham, James D., Washington, D. C. (1). Born in Virginia, 1799. Died in Boston, Mass., Dec. 28, 1865.

Gray, Alonzo, Brooklyn, N. Y. (13). Born in Townshend, Vt., Feb. 21, 1808. Died in Brooklyn, N. Y., March 10, 1860.

Gray, Asa, Cambridge, Mass. (1). Born in Paris, N. Y., Nov. 18, 1810. Died in Cambridge, Mass., Jan. 30, 1888.

Gray, James H., Springfield, Mass. (6).

Greene, Benjamin D., Boston, Mass. (1). Died Oct. 14, 1862, aged 68.

Greene, Everett W., Madison, N. J. (10). Died in 1864.

Greene, Samuel, Woonsocket, R. I. (9). Died in 1868.

Greer, James, Dayton, Ohio (20). Died in Feb., 1874.

Griffith, Robert Eglesfield, Philadelphia, Pa. (1). Born in Philadelphia, Pa., Feb. 13, 1798. Died June 26, 1854.

Griswold, John Augustus, Troy, N. Y. (19). Born Nov. 11, 1818. Died Oct. 31, 1872.

Guest, William E., Ogdensburg, N. Y. (6).

Guyot, Arnold, Princeton, N. J. (1). Born Sept. 5, 1809. Died Feb. 8, 1884.

Habel, Louis, Northfield, Vt. (34).

Hackley, Charles William, New York, N. Y. (4). Born in Herkimer Co., N. Y., March 9, 1809. Died in New York, N. Y., January 10, 1861.

Hadley, George, Buffalo, N. Y. (6). Born June, 1813. Died Oct. 16, 1877.

Haldeman, Samuel Stehman, Chickies, Pa. (1). Born Aug. 12, 1812. Died Sept. 10, 1880.

Hale, Enoch, Boston, Mass. (1). Born in Westhampton, Mass., Jan. 29, 1790. Died in Boston, Mass., Nov. 12, 1848.

Hamilton, Jno. M., Coudersport, Pa. (33).

Hampson, Thomas, Washington, D. C. (33).

Hance, Ebenezer, Fallsington P. O., Pa. (7). Died in 1876.

Harding, Myron H., Lawrenceburg, Ind. (30.) Died Sept., 1885.

Hare, Robert, Philadelphia, Pa. (1). Born in Philadelphia, Pa., Jan. 17, 1781. Died in Philadelphia, May 15, 1858.

Harger, Oscar, New Haven, Conn. (25). Born in Oxford, Conn., Jan. 12, 1843. Died in New Haven, Conn., Nov. 6, 1887.

Harlan, Joseph G., Haverford, Pa. (8).

Harlan, Richard, Philadelphia, Pa. (1). Born in Philadelphia, Pa., Sept. 19, 1796. Died in New Orleans, La., Sept. 30, 1843.

Harris, Thaddeus William, Cambridge, Mass. (1). Born in Dorchester, Mass., Nov. 12, 1795. Died in Cambridge, Mass., Jan. 16, 1856.

Harrison, A. M., Plymouth, Mass. (29).

Harrison, Benjamin Franklin, Wallingford, Conn. (11). Born April 19, 1811. Died April 23, 1886.

Harrison, Jos., jr., Philadelphia, Pa. (12). Born in Philadelphia, Pa., Sept. 20, 1810. Died in Philadelphia, March 27, 1874.

Hart, Simeon, Farmington, Conn. (1). Born Nov. 17, 1795. Died April 20, 1853.

Hartt, Charles Frederick, Ithaca, N. Y. (18). Born in Nova Scotia, Aug. 20, 1840. Died March 18, 1878.

Haven, Joseph, Chicago, Ill. (17). Born in Dennis, Mass., Jan. 4, 1816. Died May 23, 1874.

Hawes, George W., Washington, D. C. (23). Born Dec. 31, 1848. Died June 22, 1882.

Hayden, Ferdinand Vandeveer, Philadelphia, Pa. (29). Born in Westfield, Mass., Sept. 7, 1829. Died Dec. 22, 1887.

Hayden, Horace H., Baltimore, Md. (1). Born in Winsor, Conn., Oct. 13, 1769. Died in Baltimore, Md., Jan. 26, 1844.

Hayes, George E., Buffalo, N. Y. (15).

Hayward, James, Boston, Mass. (1). Born in Concord, Mass., June 12, 1786. Died in Boston, Mass., July 27, 1866.

Hazen, William Babcock, Washington, D. C. (30). Born in Hartford, Vt., Sept. 27, 1830. Died Jan. 16, 1887.

Hedrick, Benjamin Sherwood, Washington, D. C. (19). Born in 1826. Died Sept. 2, 1886.

Heighway, A. E., Cincinnati, Ohio (29). Born Dec. 26, 1820. Died Jan. 24, 1888.

Hempstead, G. S. B., Portsmouth, Ohio (29). Born in 1795. Died July 9, 1883.

Henry, Joseph, Washington, D. C. (1). Born in Albany, N. Y., Dec. 17, 1797. Died May 13, 1878.

Hickox, S. V. R., Chicago, Ill. (17). Died in 1872.

Hicks, William C., New York, N. Y. (34). Died in 1885.

Hilgard, Julius Erasmus, Washington, D. C. (4). Born in Zweibrücken, Bavaria, Jan. 7, 1825. Died in Washington, D. C., May 8, 1891.

Hilgard, Theodore Charles, St. Louis, Mo. (17). Born in Zweibrücken, Bavaria, Feb. 28, 1828. Died March 5, 1875.

Hill, Walter N., Chester, Pa. (29). Born Apr. 15, 1846. Died Mar. 29, 1884.

Hincks, William, Toronto, C. W. (11). Born in 1801. Died July, 1871.

Hitchcock, Edward, Amherst, Mass. (1). Born in Deerfield, Mass., May 24, 1793. Died Feb. 27, 1864.

Hoadley, John Chipman, Boston, Mass. (29). Born Dec. 10, 1818. Died Oct. 21, 1886.

Hobbs, A. C., Bridgeport, Conn. (28). Died in Nov., 1891.

Hodgson, W. B., Savannah, Ga. (10). Born 1815.

Holbrook, John Edwards, Charleston, S. C. (1). Born in Beaufort, S. C., Dec. 30, 1796. Died in Norfolk, Mass., Sept. 8, 1871.

Holman, Mrs. S. W., Boston, Mass. (29). Died May 5, 1885.

Holmes, Edward J., Boston, Mass. (29). Died in July, 1884.

Homes, Henry A., Albany, N. Y. (11). Born in Boston, Mass., March 10, 1812. Died in Albany, N. Y., Nov. 3, 1887.

Hopkins, Albert, Williamstown, Mass. (19). Born July 14, 1807. Died May 25, 1872.

Hopkins, James G., Ogdensburg, N. Y. (10). Died in 1860.

Hopkins, T. O., Williamsville, N. Y. (10). Died in 1866.

Hopkins, Wm., Lima, N. Y. (5). Died in March, 1867.

Hoppock, Albert Eugene, Hastings-on-Hudson, N.Y. (29).

Horton, C. V. R., Chaumont, N. Y. (10). Died in 1862.

Horton, William, Craigville, N. Y. (1).

Hosford, Benj. F., Haverhill, Mass. (13). Died in 1864.

Hough, Franklin Benjamin, Lowville, N. Y. (4). Born in Martinsburgh, N. Y., July 20, 1822. Died June 11, 1885.

Houghton, Douglas, Detroit, Mich. (1). Born in Troy, N. Y., Sept. 21, 1809. Died Oct. 13, 1845.

Hovey, Edmund O., Crawfordsville, Ind. (20). Born July 15, 1801. Died March 10, 1877.

Howland, Edward Perry, Washington, D. C. (29). Born in Ledyard, N. Y., July 20, 1825. Died in Harrisburg, Pa., Sept. 12, 1888.

Hubbert, James, Richmond, Province of Quebec (16). Died in 1868.

Howland, Theodore, Buffalo, N. Y. (15).

Hunt, Edward Bissell, Washington, D. C. (2). Born in Livingston Co., N. Y., June 15, 1822. Died in Brooklyn, N. Y., Oct. 2, 1863.

Hunt, Freeman, New York, N. Y. (11). Born in Quincy, Mass., March 21, 1804. Died in Brooklyn, N. Y., March 2, 1858.

Hunt, Thomas Sterry, New York, N. Y. (1). Born in Norwich, Conn., Sept. 5, 1826. Died in New York, N. Y., Feb. 12, 1892.

Hyatt, Theodore, Chester, Pa. (30).

Ives, Moses B., Providence, R. I. (9). Died in 1857.

Ives, Thomas P., Providence, R. I. (10).

Jackson, Charles Thomas, Boston, Mass. (1). Born in Plymouth, Mass., June 21, 1805. Died Aug. 28, 1880.

James, Thomas Potts, Cambridge, Mass. (22). Born Sept. 1, 1803. Died Feb. 22, 1882.

Jeffries, John Amory, Boston, Mass. (38). Born in Milton, Mass., Sept. 2, 1859. Died in Boston, Mass., March 26, 1892.

Johnson, Hosmer A., Chicago, Ill. (17). Died in Chicago, Feb. 26, 1891.
Johnson, Walter Rogers, Washington, D. C. (1). Born in Leominster, Mass., June 21, 1794. Died April 26, 1852.
Johnson, William Schuyler, Washington, D. C. (31). Born Sept. 20, 1859. Died Oct. 6, 1883.
Jones, Catesby A. R., Washington, D. C. (8).
Jones, Henry A., Portland, Me. (29). Died Sept. 3, 1883.
Jones, James H., Boston, Mass. (28).
Joy, Charles Arad, Stockbridge, Mass. (8). Born in Ludlowville, N. Y., Oct. 8, 1823. Died in Stockbridge, Mass., May 29, 1891.

Kedzie, W. K., Oberlin, Ohio (25). Born in Kalamazoo, Mich., July 5, 1851. Died in Lansing, Mich., Apr. 10, 1880.
Keely, George W., Waterville, Me. (1). Died in 1878.
Keep, N. C., Boston, Mass. (13). Died in March, 1875.
Kennicott, Robert, West Northfield, Ill. (12). Born Nov. 13, 1835. Died in 1866.
Kerr, Washington Caruthers, Raleigh, N. C. (10). Born May 24, 1827. Died Aug. 9, 1885.
Kidder, Henry Purkitt, Boston, Mass. (29). Born Jan. 8, 1823. Died Jan. 28, 1886.
King, Mitchell, Charleston, S. C. (3). Born in Scotland, June 8, 1783. Died Nov. 12, 1862.
Kirkpatrick, James A., Philadelphia, Pa. (7). Died June 3, 1886.
Kite, Thomas, Cincinnati, Ohio (5). Died Feb. 6, 1884.
Klippart, John H., Columbus, Ohio (17). Died October, 1878.
Knickerbocker, Charles, Chicago, Ill. (17). Died in 1873.
Knight, J. B., Philadelphia, Pa. (21). Died March 10, 1879.

Lacey, O. M., Crawfordsville, Ind. (39). Died Jan. 9, 1891.
Lacklan, R., Cincinnati, Ohio (11).
Lapham, Increase Allen, Milwaukee, Wis. (3). Born in Palmyra, N. Y., March 7, 1811. Died in Oconomowoc, Wis., Sept. 14, 1875.
Larkin, Ethan Pendleton, Alfred Centre, N. Y. (33). Born Sept. 20, 1829. Died Aug. 23, 1887.
LaRoche, Réné, Philadelphia, Pa. (12). Born in Philadelphia, Pa., 1795. Died in Philadelphia, Dec., 1872.
Lasel, Edward, Williamstown, Mass. (1). Born Jan. 21, 1809. Died Jan. 31. 1852.
Lawford, Frederick, Montreal, Canada (11). Died in 1866.
Lawrence, Edward, Charlestown, Mass. (18). Born June, 1810. Died Oct. 17, 1885.
Lea, Isaac, Philadelphia, Pa. (1). Born in Wilmington, Del., March 4, 1792. Died Dec. 8, 1886.
Le Conte, John Lawrence, Philadelphia, Pa. (1). Born in New York, May 13, 1825. Died Nov. 15, 1883.
Lederer, Baron von, Washington, D. C. (1).

Leidy, Joseph, Philadelphia, Pa. (7). Born in Philadelphia, Sept. 9, 1823. Died in Philadelphia, April 30, 1891.

Leonard, Rensselaer, Mauch Chunk, Pa. (33). Born in Hancock, N. Y., April 12, 1821. Died in Mauch Chunk, Pa., Oct. 26, 1888.

Lewis, Henry Carvill, Philadelphia, Pa. (26). Born in Philadelphia, Pa., Nov. 16, 1853. Died in Manchester, England, July 21, 1888.

Libbey, Joseph, Georgetown, D. C. (31). Died July 20, 1886.

Lieber, Oscar Montgomery, Columbia, S. C. (8). Born Sept. 8, 1830. Died June 27, 1862.

Lincklaen, Ledyard, Cazenovia, N. Y. (1). Born in Cazenovia, N. Y., Oct. 17, 1820. Died April 25, 1864.

Linsley, James Harvey, Stafford, Conn. (1). Born in Northford, Conn., May 5, 1787. Died in Stratford, Conn., Dec. 26, 1843.

Lockwood, Moses B., Providence, R. I. (9). Died in 1872.

Logan, William Edmond, Montreal, Canada (1). Born in Montreal, Canada, April 23, 1798. Died in Wales, June 22, 1875.

Loiseau, Emile F., Brussels, Belgium (33). Died April 30, 1886.

Loomis, Elias, New Haven, Conn. (1). Born in Willington, Conn., Aug. 7, 1811. Died in New Haven, Conn., Aug. 15, 1889.

Loosey, Charles F., New York, N. Y. (12).

Lothrop, Joshua R., Buffalo, N. Y. (15).

Lovering, Joseph, Cambridge, Mass. (2). Born in Charlestown, Mass., Dec. 25, 1813. Died in Cambridge, Mass., Jan. 18, 1892.

Lowrie, J. R., Warriorsmark, Pa. (29). Died Dec. 10, 1885.

Lull, Edward Phelps, Washington, D. C. (28). Born Feb. 20, 1836. Died March 5, 1887.

Lyford, Moses, Springfield, Mass. (22). Born in Mt. Vernon, Me., Jan. 31, 1816. Died in Portland, Me., Aug. 4, 1887.

Lyman, Chester Smith, New Haven, Conn. (4). Born in Manchester, Conn., Jan. 13, 1814. Died in New Haven, Conn., in 1889.

Lyon, Sidney S., Jeffersonville, Ind. (20). Born Aug. 4, 1808. Died June 24, 1872.

M'Conihe, Isaac, Troy, N. Y. (5).

McCutchen, A. R., Atlanta, Ga. (25). Died Nov. 21, 1887.

McElrath, Thomas, New York, N. Y. (36). Born in Williamsport, Pa., May 1, 1807. Died in New York, N. Y., June 6, 1888.

McFadden, Thomas, Westerville, Ohio (30). Born Nov. 9, 1825. Died Nov. 9, 1883.

McFarland, Walter, New York, N. Y. (36). Died July 22, 1888.

MacGregor, Donald, Houston, Texas (33). Died in Oct., 1887.

McLachlan, J. S., Montreal, Can. (31).

McMahon, Mathew, Albany, N. Y. (11).

McNiel, John A., Binghamton, N. Y. (35). Died in Binghamton, Dec. 20, 1891, aged 75.

Maack, G. A., Cambridge, Mass. (18). Died in Aug., 1873.

Macfarlane, James, Towanda, Pa. (29). Died in 1885.

Mackintosh, James B , New York, N. Y. (27). Died in 1891.

Maffet, Wm. Ross, Wilkes Barre, Pa. (33). Died in June, 1890.

Mahan, Dennis Hart, West Point, N. Y. (9). Born in New York, N. Y., April 2, 1802. Died in New York, Sept. 16, 1871.

Marler, George L., Montreal, Can. (31).

Marsh, Dexter, Greenfield, Mass. (1). Born in Montague, Mass., Aug. 22, 1806. Died in Greenfield, Mass., April 2, 1853.

Marsh. James E., Roxbury, Mass. (10).

Martin, Benjamin Nichols, New York, N. Y. (23). Born in Mount Holly, N. J., Oct. 20, 1816. Died in New York, N. Y., Dec. 26, 1883.

Mather, William Williams, Columbus, Ohio (1). Born in Brooklyn, Conn., May 24, 1804. Died in Columbus, Ohio, Feb. 27, 1859.

Maude, John B., St. Louis, Mo. (27). Died in April, 1879.

Maupin, S., Charlottesville, Va. (10).

May, Abigail Williams, Boston, Mass. (29). Born in Boston, April 21, 1829. Died in Boston, Nov. 30, 1888.

Meade, George Gordon, Philadelphia, Pa. (15). Born Dec. 30, 1815. Died Nov. 6, 1872.

Meek, Fielding Bradford, Washington, D. C. (6). Born Dec. 10, 1817. Died Dec. 21, 1876.

Meigs, James Aitken, Philadelphia, Pa. (12). Born July 30, 1829. Died Nov. 9, 1879.

Metcalf, Caleb B., Worcester, Mass. (20). Died July 31, 1891.

Miniffe, Wm., Baltimore, Md. (12). Born Aug. 14, 1805. Died Oct. 24, 1880.

Mitchel, Ormsby MacKnight, Cincinnati, Ohio (3). Born in Union Co., Ky., July 28, 1810. Died in Beaufort, S. C., Oct. 30, 1862.

Mitchell, Miss Maria, Lynn, Mass. (4). Born in Nantucket, Mass., Aug. 1, 1818. Died in Lynn, 1889.

Mitchell, William, Poughkeepsie, N. Y. (2). Born in Nantucket, Mass., Dec. 20, 1791. Died in Poughkeepsie, N. Y., April 19, 1868.

Mitchell, Wm. H., Florence, Ala. (17).

Monroe, Nathan, Bradford, Mass. (6). Born in Minot, Me., May 16, 1804. Died in Bradford, Mass., July 8, 1866.

Monroe, William, Concord, Mass. (18). Died April 27, 1877.

Moore, E. C., New York, N. Y. (30).

Morgan, Lewis Henry, Rochester, N. Y. (10). Born near Aurora, N. Y., Nov. 21, 1818. Died Dec. 17, 1881.

Morgan, Mrs. Mary E., Rochester, N. Y. (31). Died in 1884.

Morison, N. H., Baltimore, Md, (17). Born in 1815. Died Nov. 14, 1890.

Morris, John B., Nashville, Tenn. (26).

Morris, Wistar, Philadelphia, Pa. (33). Died March 23, 1891.

Morton, Samuel George, Philadelphia, Pa. (1). Born in Philadelphia, Pa., Jan. 26, 1799. Died in Philadelphia, May 15, 1851.

Mott, Alexander B., New York, N. Y. (36). Died Aug. 12, 1889.

Mudge, Benjamin Franklin, Manhattan, Kansas (25). Born in Orrington, Me., Aug. 11, 1817. Died Nov. 21, 1879.

Muir, William, Montreal, Can. (31). Died July, 1885.

Mussey, William Heberdom, Cincinnati, Ohio (30). Born Sept. 30, 1818. Died Aug. 1, 1882.

Nagel, Herman, St. Louis, Mo. (30). Born in Tritzwalk, Germany, May 28, 1820. Died in St. Louis, Mo., Feb. 18, 1889.

Newland, John, Saratoga Springs, N. Y. (28). Died Jan. 18, 1880.

Newton, E. H., Cambridge, N. Y. (1).

Nichols, Charles A., Providence, R. I. (17). Born Jan. 4, 1826. Died Oct. 20, 1877.

Nichols, William Ripley, Boston, Mass. (18). Born April 30, 1847. Died July 14, 1886.

Nicholson, Thomas, New Orleans, La. (21).

Nicollet, Jean Nicholas, Washington, D. C. (1). Born in Savoy, France, July 24, 1786. Died in Washington, D. C., Sept. 11, 1843.

Northrop, John I., New York, N. Y. (36).

Norton, John Pitkin, New Haven, Conn. (1). Born July 19, 1822. Died Sept. 5, 1852.

Norton, William Augustus, New Haven, Conn. (6). Born in East Bloomfield, N. Y., Oct. 25, 1810. Died Sept. 21, 1883.

Noyes, James Oscar, New Orleans, La. (21). Born in Niles, N. Y., June 14, 1829. Died in New Orleans, La., Sept. 11, 1872.

Nutt, Cyrus, Bloomington, Ind. (20). Born in Trumbull Co., Ohio, Sept. 4, 1814. Died in Bloomington, Aug. 23, 1875.

Oakes, Wm., Ipswich, Mass. (1). Born July 1, 1799. Died July 31, 1848.

Ogden, Robert W., New Orleans, La. (21). Died March 24, 1878.

Ogden, William Butler, High Bridge, N. Y. (17). Born in New York, N. Y., 1805. Died in New York, Aug. 3, 1877.

Oliver, Miss Mary E., Ithaca, N. Y. (20).

Olmsted, Alexander Fisher, New Haven, Conn. (4). Born Dec. 20, 1822. Died May 5, 1853.

Olmsted, Denison, New Haven, Conn. (1). Born in East Hartford, Conn., June 18, 1791. Died in New Haven, Conn., May 13, 1859.

Olmsted, Denison, jr., New Haven, Conn. (1). Born Feb. 16, 1824. Died Aug. 15, 1846.

Orton, James, Poughkeepsie, N. Y. (18). Born in Seneca Falls, N. Y., April 21, 1830. Died in Peru, S. A., Sept. 24, 1877.

Osbun, Isaac J., Salem, Mass. (29).

Otis, George Alexander, Washington, D. C. (10). Born in Boston, Mass., Nov. 12, 1830. Died Feb. 23, 1881.

Owen, Richard, New Harmony, Ind. (20). Born in Scotland, Jan. 6, 1810. Died in New Harmony, March 24, 1890.

Packer, Harry E., Mauch Chunk, Pa. (30). Died Feb. 1, 1884.

Painter, Jacob, Lima, Pa. (23). Died in 1876.

Painter, Minshall, Lima, Pa. (7).

Parker, Wilbur F., West Meriden, Conn. (23). Died in 1876.

Parkman, Samuel, Boston, Mass. (1). Born in 1816. Died Dec. 15, 1854.

Parry, Charles C., Davenport, Iowa (6). Born in Admington, Worcestershire, Eng., Aug. 28, 1823. Died in Davenport, Iowa, Feb. 20, 1890.

Parsons, Henry Betts, New York, N. Y. (30). Born Nov. 20, 1855. Died Aug. 21, 1885.

Payn, Charles H., Saratoga Springs, N. Y. (28). Born May 16, 1814. Died Dec. 20, 1881.

Pearson, H. G., New York, N. Y. (36).

Pease, F. S., Buffalo, N. Y. (35). Died Nov. 6, 1890.

Pease, Rufus D., Philadelphia, Pa. (33). Died in 1890.

Peirce, Benjamin Osgood, Beverly, Mass. (18). Born in Beverly, Sept. 26, 1812. Died in Beverly, Nov. 12, 1883.

Peirce, Benjamin, Cambridge, Mass. (1). Born in Salem, Mass., April 4, 1809. Died in Cambridge, Mass., Oct. 6, 1880.

Perch, Bernard, Frankford, Pa. (35). Born in 1850. Died in 1887.

Perkins, George Roberts, Utica, N. Y. (1). Born in Otsego Co., N. Y., May 3, 1812. Died in New Hartford, N. Y., Aug. 22, 1876.

Perkins, Henry C., Newburyport, Mass. (18). Born Nov. 13, 1804. Died Feb. 2, 1873.

Perry, John B., Cambridge, Mass. (16). Born in 1820. Died Oct. 3, 1872.

Perry, Matthew Calbraith, New York, N. Y. (10). Born in South Kingston, R. I., 1795. Died in New York, March 4, 1858.

Phelps, Mrs. Almira Hart Lincoln, Baltimore, Md. (13). Born in Berlin, Conn., July 15, 1793. Died in Berlin, July 15, 1884.

Philbrick, Edw. S., Brookline, Mass. (29). Born in Boston, Mass., Nov. 20, 1827. Died in Brookline, Mass., Feb. 13, 1889.

Phillips, John C., Boston, Mass. (29). Born in 1839. Died Mar. 1, 1885.

Piggot, A. Snowden, Baltimore, Md. (10).

Pim, Bedford Clapperton Trevelyan, London, Eng. (33). Born in England, June 12, 1826. Died Oct., 1886.

Platt, W. G., Philadelphia, Pa. (32). Died Nov., 1885.

Plumb, Ovid, Salisbury, Conn. (9).

Pope, Charles Alexander, St. Louis, Mo. (12). Born in Huntsville, Ala., March 15, 1818. Died in Paris, Mo., July 6, 1870.

Porter, John Addison, New Haven, Conn. (14). Born in Catskill, N. Y., March 15, 1822. Died in New Haven, Conn., Aug. 25, 1866.

Potter, Stephen H., Hamilton, Ohio (30). Born Nov. 10, 1812. Died Dec. 9, 1883.

Pourtalès, Louis François de, Cambridge, Mass. (1). Born March 4, 1824. Died July 19, 1880.

Pruyn, John Van Schaick Lansing, Albany, N. Y. (1). Born in Albany, N. Y., June 22, 1811. Died in Clifton Springs, N. Y., Nov. 21, 1877.

Pugh, Evan, Centre Co., Pa. (14). Born Feb. 29, 1828. Died April 29, 1864.

Pulsifer, Sidney, Philadelphia, Pa. (21). Died March 24, 1884.

Putnam, Mrs. Frederick Ward, Cambridge, Mass. (19). Born in Charlestown, Mass., Dec. 29, 1838. Died in Cambridge, Mass., March 10, 1879.

Putnam, J. Duncan, Davenport, Iowa (27). Born Oct. 18, 1855. Died Dec. 10, 1881.

Read, Ezra, Terre Haute, Ind. (20). Died in 1877.

Redfield, William C., New York, N. Y. (1). Born near Middletown, Conn., March 26, 1789. Died Feb. 12, 1857.

Resor, Jacob, Cincinnati, Ohio (8). Died in 1871.

Robb, James, Fredericton, N. B. (4).

Robinson, Coleman T., Buffalo, N. Y. (15). Born in Putnam Co., N. Y., in 1838. Died near Brewster's Station, N. Y., May 1, 1872.

Rochester, Thomas Fortescue, Buffalo, N. Y. (35). Born Oct. 8, 1823. Died May 24, 1887.

Rockwell, John Arnold, Norwich, Conn. (10). Born in Norwich, Conn., August 27, 1803. Died in Washington, D. C., February 10, 1861.

Roeder, F. A., Cincinnati, Ohio (30).

Rogers, Henry Darwin, Glasgow, Scotland (1). Born in Philadelphia, Pa. Aug. 1, 1808. Died in Glasgow, Scotland, May 29, 1866.

Rogers, James Blythe, Philadelphia, Pa. (1). Born in Philadelphia, Pa., Feb. 11, 1802. Died in Philadelphia, June 15, 1852.

Rogers, Robert Emple, Philadelphia, Pa. (18). Born in Baltimore, Md., March 29, 1813. Died Sept. 6, 1884.

Rogers, William Barton, Boston, Mass. (1). Born in Philadelphia, Pa., Dec. 7, 1804. Died in Boston, May 30, 1882.

Root, Elihu, Amherst, Mass. (25). Born Sept. 14, 1845.

Sager, Abram, Ann Arbor, Mich. (6). Born in Bethlehem, N. Y., Dec. 22, 1811. Died in Ann Arbor, Mich., August 6, 1877.

Sanders, Benjamin D., Wellsburg, W. Va. (19).

Scammon, Jonathan Young, Chicago, Ill. (17). Born in Whitefield, Me., in 1812. Died in Chicago, Ill., March 17, 1890.

Schaeffer, Geo. C., Washington, D. C. (1). Died in 1873.

Schimpff, Robert D., Scranton, Pa. (36).

Schley, William, New York, N. Y. (28). Died in 1882.

Schram, Nicholas Hallock, Newburgh, N. Y. (33). Died in Newburgh, N. Y., aged 54 years, 1 month and 2 days.

Schrenk, Joseph, Hoboken, N. J. (36).

Scott, Joseph, Dunham, C. E. (11). Died in 1865.

Seaman, Ezra Champion, Ann Arbor, Mich. (20). Born Oct. 14, 1805. Died July 15, 1880.

Senecal, L. A., Montreal, Can. (31).

Senter, Harvey S., Aledo, Ill. (20). Died in 1875.

Seward, William Henry, Auburn, N. Y. (1). Born in Florida, N. Y., May 16, 1801. Died in Auburn, N. Y., Oct. 10, 1872.

Sheafer, Peter W., Pottsville, Pa. (4). Died March 26, 1891.

Sheppard, William, Drummondville, Province of Quebec, Can. (11). Born in 1783. Died in 1867.

Sherwin, Thomas, Dedham, Mass. (11). Born in Westmoreland, N. H., March 26, 1799. Died in Dedham, Mass., July 23, 1869.

Sill, Elisha N., Cuyahoga Falls, Ohio (6). Born in 1801. Died April 26, 1888.

Silliman, Benjamin, New Haven, Conn. (1). Born in North Stratford, Conn., August 8, 1779. Died in New Haven, Conn., Nov. 22, 1864.

Silliman, Benjamin, New Haven, Conn. (1). Born in New Haven, Conn., Dec. 4, 1816. Died Jan. 14, 1885.

Simpson, Edward, Washington, D. C. (28). Born in New York, N. Y., March 3, 1824. Died in Washington, D. C., Dec. 1, 1888.

Skinner, George, Kalida, Ohio (33).

Skinner, John B., Buffalo, N. Y. (15). Died in 1871.

Slack, J. H., Philadelphia, Pa. (12).

Smith, Charles A., St. Louis, Mo. (27). Died in 1884.

Smith, David P., Springfield, Mass. (29). Born Oct. 1, 1830. Died Dec. 26, 1880.

Smith, Mrs. Erminnie Adelle, Jersey City, N. J. (25). Born April 26, 1836. Died June 9, 1886.

Smith, John Lawrence, Louisville, Ky. (1). Born near Charleston, S. C., Dec. 17, 1818. Died Oct. 12, 1883.

Smith, J. V., Cincinnati, Ohio (5).

Smith, James Young, Providence, R. I. (9). Born in Groton, Conn., Sept. 15, 1809. Died March 26, 1876.

Smith, Lyndon Arnold, Newark, N. J. (9). Born in Haverhill, N. H., November 11, 1795. Died in Newark, N. J., December 15, 1865.

Snell, Ebenezer Strong, Amherst, Mass. (2). Born in North Brookfield, Mass., October 7, 1801. Died in Amherst, Mass., Sept., 1877.

Sparks, Jared, Cambridge, Mass. (2). Born in Willington, Conn., May 10, 1819. Died in Cambridge, Mass., March 14, 1866.

Spinzig, Charles, St. Louis, Mo. (27). Died Jan. 22, 1882.

Squier, Ephraim George, New York, N. Y. (18). Born in Bethlehem, N. Y., June 17, 1821. Died in Brooklyn, N. Y., April 17, 1888.

Stearns, Josiah A., Boston, Mass. (29).

Stearns, Silas, Pensacola, Fla. (28). Died Aug. 2, 1888.

Steele, Joel Dorman, Elmira, N. Y. (33). Born in Lima, N. Y., May 14, 1836. Died May 25, 1886.

Steiner, Lewis H., Baltimore, Md. (7). Born in Frederick City, Md., in 1827.

Stevenson, James, Washington, D. C. (29). Born in Maysville, Ky., Dec. 24, 1840. Died in New York, N. Y., July 25, 1888.

Stimpson, Wm., Chicago, Ill. (12). Born Feb. 14, 1832. Died May 26, 1872.

Stone, Leander, Chicago, Ill. (32). Died April 2, 1888.

Stone, Samuel, Chicago, Ill. (17). Born Dec. 6, 1798. Died May 4, 1876.

St. John, Joseph S., Albany, N. Y. (28). Died Nov. 23, 1882.

Straight, H. H., Chicago, Ill. (25). Died Nov. 17, 1886.

Sturges, George, Chicago, Ill. (37). Born at Putnam, Ohio, May 13, 1838. Died at Lake Geneva, Wis., Aug. 12, 1890.

Sullivan, Algernon Sidney, New York, N. Y. (36). Born April 5, 1826. Died Dec. 4, 1887.

Sullivant, William Starling, Columbus, Ohio (7). Born near Columbus, O., Jan 15, 1803. Died in Columbus, O., April 30, 1873.

Sutton, George, Aurora, Ind. (20). Died June 13, 1886.
Swain, James, Fort Dodge, Iowa (21). Born in 1816. Died in 1877.

Tallmadge, James, New York, N. Y. (1). Born in Stamford, N. Y., Jan. 20, 1778. Died in New York, N. Y., Oct. 3, 1853.
Taylor, Arthur F., Cleveland, Ohio (29). Born Dec. 10, 1853. Died June 28, 1883.
Taylor, Richard Cowling, Philadelphia, Pa. (1). Born in England, Jan. 18, 1789. Died in Philadelphia, Pa., November 26, 1851.
Taylor, Robert N., Tollesboro, Ky. (37). Died Aug. 13, 1888.
Tenney, Sanborn, Williamstown, Mass. (17). Born in January, 1827. Died July 11, 1877.
Teschemacher, James Englehert, Boston, Mass. (1). Born in Nottingham, England, June 11, 1790. Died near Boston, Nov. 9, 1853.
Thompson, A. Remsen, New York, N. Y. (1). Died in Oct., 1879.
Thompson, Alexander, Aurora, N. Y. (1).
Thompson, Charles Oliver, Terre Haute, Ind. (29). Born in East Windsor Hill, Conn., Sept. 25, 1835. Died in Terre Haute, Ind., March 17, 1885.
Thompson, Zadock, Burlington, Vt. (1). Born in Bridgewater, Vt., May 23, 1796. Died in Burlington, Vt., Jan 19, 1856.
Thomson, Henry R., Crawfordsville, Ind. (30). Died in 1884.
Thurber, Isaac, Providence, R. I. (9).
Tileman, John Nicholas, Sandy, Utah (33). Born in Horhun, Denmark, March 28, 1845. Died in Salt Lake City, Utah, Sept. 4, 1888.
Tillman, Samuel Dyer, Jersey City, N. J. (15). Born April, 1815. Died Sept. 4, 1875.
Tobin, Thomas W., Louisville, Ky. (30). Died Aug. 4, 1883.
Todd, Albert, St. Louis, Mo. (27). Born March 4, 1813. Died April 30, 1885.
Tolderoy, James B., Fredericton, N. B. (11).
Torrey, John, New York, N. Y. (1). Born in New York, N. Y., Aug. 15, 1796. Died in New York, March 10, 1873.
Torrey, Joseph, Burlington, Vt. (2). Born in Rowley, Mass., Feb. 2, 1797. Died in Burlington, Vt., Nov. 26, 1867.
Totten, Joseph Gilbert, Washington, D. C. (1). Born in New Haven, Conn., August 23, 1788. Died in Washington, D. C., April 22, 1864.
Townsend, Howard, Albany, N. Y. (10). Born Nov. 22, 1823. Died Jan. 6, 1867.
Townsend, John Kirk, Philadelphia, Pa. (1). Born Aug. 10, 1809. Died Feb. 16, 1851.
Townsend, Robert, Albany, N. Y. (9). Born 1799. Died Aug. 15, 1866.
Trembley, J. B., Oakland, Cal. (17).
Troost, Gerard, Nashville, Tenn. (1). Born in Bois-le-Duc, Holland, March 15, 1776. Died in Nashville, Tenn., Aug. 14, 1850.
Tuomey, Michael, Tuscaloosa, Ala. (1). Born in Ireland, September 29, 1805. Died in Tuscaloosa, Ala., March 20, 1857.
Tupper, Samuel Y., Charleston, S. C. (38). Died in 1891.

Tweedale, John B., St. Thomas, Can. (35). Born in Ormskirk, Lancashire, Eng., Oct. 16, 1821. Died in St. Thomas, Can., Nov. 18, 1889.

Tyler, Edward R., New Haven, Conn. (1). Born Aug. 3, 1800. Died Sept. 28, 1848.

Tyler, Edward R , Washington. D. C. (31). Died in Washington, March 30, 1891.

Vancleve, John W., Dayton, Ohio (1).

Vanuxem, Lardner, Bristol, Pa. (1). Born in Philadelphia, Pa., July 23, 1792. Died in Bristol, Pa., June 25, 1848.

Vaux, William Sanson, Philadelphia, Pa. (1). Born in Philadelphia, May 19, 1811. Died in Philadelphia, May 5, 1882.

Wadsworth, James Samuel, Genesee, N. Y. (2). Born in Geneseo, N. Y., October 30, 1807. Died near Chancellorville, Va., May 8, 1864.

Wagner, Tobias, Philadelphia, Pa. (9).

Walker, J. R., Bay Saint Louis, Miss. (19). Born Aug. 7, 1830. Died June 22, 1887.

Walker, Joseph, Oxford, N. Y. (10).

Walker, Sears C., Washington, D. C. (1). Born March 28, 1805. Died January 30, 1853.

Walker, Timothy, Cincinnati, Ohio (4). Born in Wilmington, Mass., Dec. 1, 1802. Died in Cincinnati, Ohio, Jan. 15, 1856.

Walling, H. F., Cambridge, Mass. (16). Died April 8, 1888.

Walsh, Benjamin D., Rock Island, Ill. (17). Born in Frome, England, Sept. 21, 1808. Died in Rock Island, Ill., Nov. 18, 1869.

Walton, Joseph J., Philadelphia, Pa. (29). Born in Barnesville, Ohio, Nov. 1, 1855. Died in Philadelphia, Pa , Oct. 11, 1889.

Wanzer, Ira, Brookfield, Conn. (18). Born in New Fairfield, Conn., April 17, 1796. Died in New Milford, Conn., March 5, 1879.

Warnecke, Carl, Montreal, Can. (31). Died May 14, 1886.

Warren, Geo. Washington, Boston, Mass. (18). Died in 1884.

Warren, Gouverneur Kemble, Newport, R. I. (12). Born in Cold Spring N. Y., Jan. 8, 1830. Died in Newport, R. I., Aug. 8, 1882.

Warren, John Collins, Boston, Mass. (1). Born in Boston, Mass., Aug. 1, 1778. Died in Boston, May 4, 1856.

Warren, Samuel D., Boston, Mass. (29). Born in 1817. Died May 11, 1888.

Watertown, Charles, Wakefield, Eng. (1). Born in Wakefield, England. Died in Wakefield, May 26, 1865.

Watkins, Samuel, Nashville, Tenn. (26).

Watson, James Craig, Ann Arbor, Mich. (13). Born in Fingal, Canada, Jan. 28, 1838. Died in Madison, Wis., Nov. 23, 1880.

Watson, Sereno, Cambridge, Mass. (22). Died March 9, 1892, in the 66th year of his age.

Webster, Horace B., Albany, N. Y. (1). Born in 1812. Died Dec. 8, 1843.

Webster, J. W., Cambridge, Mass. (1). Born in 1793. Died Aug. 30, 1850.

Webster, M. H., Albany, N. Y. (1).

Weed, Monroe, Wyoming, N. Y. (6). Died in 1867.

Welch, Mrs. G. O., Lynn, Mass. (21). Died in June, 1882.

Welsh, John, Philadelphia, Pa. (33). Died May, 1886.

Weyman, George W., Pittsburgh, Pa. (6). Born April, 1832. Died July 16, 1864.

Wheatland, Richard H., Salem, Mass. (13). Born July 6, 1830. Died Dec. 21, 1863.

Wheatley, Charles M., Phœnixville, Pa. (1). Died May 6, 1882.

Wheeler, Arthur W., Baltimore, Md. (29). Born in March, 1859. Died Jan. 6, 1881.

Wheildon, William W., Concord, Mass. (13). Born in 1805. Died in Concord, Mass., Jan. 7, 1892.

Whitall, Henry, Camden, N. J. (33).

White, Samuel S., Philadelphia, Pa. (23). Died Dec. 30, 1879.

Whiting, Lewis E., Saratoga Springs, N. Y. (28). Born March 7, 1815. Died Aug. 2, 1882.

Whitman, Edmund B., Cambridge, Mass. (29). Died Sept. 2, 1883.

Whitman, Wm. E., Philadelphia, Pa. (23). Died in 1875.

Whitney, Asa, Philadelphia, Pa. (1). Born Dec. 1, 1791. Died June 4, 1874.

Whittlesey, Charles, Cleveland, Ohio (1). Born in Southington, Conn., Oct. 5, 1808. Died Oct. 18, 1886.

Whittlesey, Charles C., St. Louis, Mo. (11). Died in 1872.

Wight, Orlando W., Detroit, Mich. (34).

Wilber, G. M., Pine Plains, N. Y. (19).

Wilder, Graham, Louisville, Ky. (30). Born July 1, 1843. Died Jan. 16, 1885.

Willard, Emma C. Hart, Troy, N. Y. (15). Born in Berlin, Conn., Feb. 23, 1787. Died in Troy, N. Y., April 15, 1870.

Williams, Frank, Buffalo, N. Y. (25). Died Aug. 13, 1884.

Williams, P. O., Watertown, N. Y. (24).

Williamson, Robert S., San Francisco, Cal. (12). Born in New York about 1825.

Wilson, C. H., Belize, British Honduras (30).

Wilson, Mrs. Mary V. C., Mobile, Ala. (37). Born in Morengo County, Ala., Jan. 29, 1840. Died near Tullahoma, Tenn., June 24, 1889.

Wilson, W. C., Carlisle, Pa. (12).

Winchell, Alexander, Ann Arbor, Mich. (3). Born in North East, N. Y., Dec. 31, 1824. Died in Ann Arbor, Mich., Feb. 19, 1891.

Winlock, Joseph, Cambridge, Mass. (5). Born in Shelbyville, Ky., Feb. 6, 1826. Died in Cambridge, Mass., June 11, 1875.

Woerd, Chas. Vander, Waltham, Mass. (29). Born in Leyden, Holland, Oct. 6, 1821. Died near Dagget, Cal., Dec. 29, 1888.

Woodbury, Levi, Portsmouth, N. H. (1). Born in Francistown, N. H., Dec. 22, 1789. Died Sept. 4, 1851.

Woodman, John Smith, Hanover, N. H. (11). Born in Durham, N. H., Sept. 6, 1819. Died in Durham, N. H., May 15, 1871.

Woodward, A. E., Jefferson City, Mo. (39). Died in Montana, Sept. 20, 1891.

Woodward, Joseph Janvier, Washington, D. C. (28). Born in Philadelphia, Pa., Oct. 30, 1833. Died near that city, Aug. 17, 1884.

Worthen, Amos Henry, Springfield, Ill. (5). Born Oct. 31, 1813. Died May 6, 1888.

Worthington, George, New York, N. Y. (36). Died Feb. 1, 1892.

Wright, Elizur, Boston, Mass. (31). Born in South Canaan, Conn., Feb. 12, 1804. Died Nov. 20, 1885.

Wright, Harrison, Wilkes Barre, Pa. (29). Born July 15, 1850. Died Feb. 20, 1885.

Wright, John, Troy, N. Y. (1).

Wyman, Jeffries, Cambridge, Mass. (1). Born in Chelmsford, Mass., Aug. 11, 1814. Died in Bethlehem, N. H., Sept. 4, 1874.

Wyckoff, William Cornelius, New York, N. Y. (20). Born in New York, N. Y., May 28, 1832. Died in Brooklyn, N. Y., May 2, 1888.

Yarnall, M., Washington, D. C. (26). Born in 1817. Died Jan. 27, 1879.

Youmans, Edward Livingston, New York, N. Y. (6). Born in Coeymans, N. Y., June 3, 1821. Died Jan. 18, 1887.

Young, Ira, Hanover, N. H. (1). Born in Lebanon, N. H., May 23, 1801. Died in Hanover, N. H., Sept. 14, 1858.

Zentmayer, Joseph, Philadelphia, Pa. (29). Died, 1887.

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OF

THE AMERICAN ASSOCIATION

FOR THE

ADVANCEMENT OF SCIENCE,

FOR THE FORTY-FOURTH MEETING,

HELD AT

SPRINGFIELD, MASS.

AUGUST, 1895.

SALEM:
PUBLISHED BY THE PERMANENT SECRETARY.
1895.

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EDITED BY

FREDERICK W. PUTNAM.

Permanent Secretary.

PRINTED AT

THE SALEM PRESS,

SALEM, MASS.

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D. Mechanical Science and Engineering—WILLIAM KENT, Passaic, N. J.
E. Geology and Geography—JED. HOTCHKISS, Staunton, Va.
F. Zoology—D. S. JORDAN (Resigned.)
G. Botany—J. C. ARTHUR, Lafayette, Ind.
H. Anthropology—F. H. CUSHING, Washington, D. C.
I. Economic Science and Statistics—B. E. FERNOW, Washington, D. C.

PERMANENT SECRETARY.

F. W. PUTNAM, Cambridge (office Salem), Mass.

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C. Chemistry—W. P. MASON, Troy, N. Y.
D. Mechanical Science and Engineering—H. S. JACOBY, Ithaca, N. Y.
E. Geology and Geography—J. PERRIN SMITH, Palo Alto, Cal.
F. Zoology—S. A. FORBES (Resigned.)
G. Botany—B. T. GALLOWAY, Washington, D. C.
H. Anthropology—ANITA NEWCOMB MCGEE, Washington, D. C.
I. Economic Science and Statistics—E. A. ROSS (Resigned.)

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Vice Presidents of the Last Meeting.—EDGAR FRISBY of Washington; WM. A. ROGERS of Waterville; T. H. NORTON of Cincinnati; MANSFIELD MERRIMAN of South Bethlehem; SAMUEL CALVIN of Iowa City; J. A. LINTNER of Albany; C. E. BESSEY of Lincoln; FRANZ BOAS of New York; HENRY FARQUHAR of Washington.

Officers of the Forty-fourth Meeting.—E. W. MORLEY of Cleveland; E. S. HOLDEN (Resigned); W. LECONTE STEVENS of Troy; WILLIAM MCMURTRIE of Brooklyn; WM. KENT of Passaic; JED. HOTCHKISS of Staunton; D. S. JORDAN (Resigned); J. C. ARTHUR of Lafayette; F. H. CUSHING of Washington; B. E. FERNOW of Washington; F. W. PUTNAM of Cambridge; JAMES LEWIS HOWE of Lexington; C. R. BARNES of Madison; E. H. MOORE (Resigned); E. MERRITT of Ithaca; W. P. MASON of Troy; H. S. JACOBY of Ithaca; J. PERRIN SMITH of Palo Alto; S. A. FORBES (Resigned); B. T. GALLOWAY of Washington; ANITA NEWCOMB MCGEE of Washington; E. A. ROSS (Resigned); R. S. WOODWARD of New York.

[illegible]e Association at Large.—To hold over until successors are elected [illegible] fellow elected from each section.—R. S. WOODWARD of New York [illegible] W. LECONTE STEVENS of Troy (**B**); ALFRED SPRINGER of Cincinna[illegible] (**C**); ARTHUR BEARDSLEY of Swarthmore (**D**); G. G. HUBBARD of [illegible]shington (**E**); W. H. DALL of Washington (**F**); BYRON D. HALSTEAD [illegible] New Brunswick (**G**); W J MCGEE of Washington (**H**); GEORGE H. [illegible]RKINS of Burlington (**I**).

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[1] All Committees are expected to present their reports to the COUNCIL not later than the third day of the meeting. Committees sending their reports to the Permanent Secretary one month before a meeting can have them printed for use at the meeting.

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S. A. LATTIMORE, Rochester, " C.
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N. L. BRITTON, New York, " G.
THOMAS WILSON, Washington, " H.
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8. *Committee to memoralize Congress for a National Park in the state of Washington.*

J. W. POWELL, Washington, | JOSEPH LECONTE, Berkeley,
I. C. RUSSELL, Washington, | B. E. FERNOW, Washington,
C. C. MERRIMAN, Chicago.

9. *Committee on the Association Table in Biological Laboratory at Woods Holl.*

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S. A. FORBES, Champaign, | B. T. GALLOWAY, Washington,
C. O. WHITMAN, Chicago.

10. *Committee on recording and classifying Fossil Faunas and Floras.*

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HENRY F. OSBORN, New York, | SAMUEL H. SCUDDER, Cambridge,
ARTHUR HOLLICK, New York,

11. *Committee on Instruction in Botany in the Secondary Schools.*

J. M. COULTER, Lake Forest, | D. H. CAMPBELL, Palo Alto,
N. L. BRITTON, New York.

12. *Committee on Instruction in Anthropology.*

D. G. BRINTON, Media, | F. W. PUTNAM, Cambridge.
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MEETINGS AND OFFICERS OF THE AMERICAN ASSOCIATION OF GEOLOGISTS AND NATURALISTS.

MEETING.	DATE.	PLACE.	CHAIRMAN.	SECRETARY.	ASSIS'T SEC'Y.	TREASURER.
1st	April 2, 1840,	Philadelphia,	Edward Hitchcock,*	L. C. Beck,*		
2d	April 5, 1841,	Philadelphia,	Benjamin Silliman,*	L. C. Beck,*	B. Silliman, jr.,* C. B. Trego,*	
3d	April 25, 1842,	Boston,	S. G. Morton,*	C. T. Jackson,*	J. D. Whitney, M. B. Williams,*	
4th	April 26, 1843,	Albany,	Henry D. Rogers,*	B. Silliman, jr.,*		John Locke.*
5th	May 8, 1844,	Washington,	John Locke,*	B. Silliman, jr.,* O. P. Hubbard,		Douglas Houghton.*
6th	April 30, 1845,	New Haven,	Wm. B. Rogers,*	B. Silliman, jr.,* J. Lawrence Smith,*		Douglas Houghton.*
7th	Sept. 2, 1846,	New York,	C. T. Jackson,*	B. Silliman, jr.,*		E. C. Herrick.*
8th	Sept. 20, 1847,	Boston,	Wm. B. Rogers,†*	Jeffries Wyman,*		B. Silliman, jr.*

* Deceased.

† Professor ROGERS, as chairman of this last meeting, called the first meeting of the new Association to order and presided until it was fully organized by the adoption of a constitution. As he was thus the first presiding officer of the new Association, it was directed at the Hartford meeting that his name be placed at the head of the Past Presidents of the American Association for the Advancement of Science.

MEETINGS.	PLACE.	DATE.	MEMBERS IN ATTENDANCE.	NUMBER OF MEMBERS.
1.	Philadelphia	Sept. 20, 1848	?	461
2.	Cambridge	Aug. 14, 1849	?	540
3.	Charleston	Mar. 12, 1850	?	622
4.	New Haven	Aug. 19, 1850	?	704
5.	Cincinnati	May 5, 1851	87	800
6.	Albany	Aug. 19, 1851	194	769
7.	Cleveland	July 28, 1853	?	940
8.	Washington	April 26, 1854	168	1004
9.	Providence	Aug. 15, 1855	166	605
10.	2nd Albany	Aug. 20, 1856	381	722
11.	Montreal	Aug. 12, 1857	351	946
12.	Baltimore	April 28, 1858	190	962
13.	Springfield	Aug. 3, 1859	190	862
14.	Newport	Aug. 1, 1860	135	644
15.	Buffalo	Aug. 15, 1866	79	637
16.	Burlington	Aug. 21, 1867	73	415
17.	Chicago	Aug. 5, 1868	259	686
18.	Salem	Aug. 18, 1869	244	511
19.	Troy	Aug. 17, 1870	188	536
20.	Indianapolis	Aug. 16, 1871	196	668
21.	Dubuque	Aug. 15, 1871	164	610
22.	Portland	Aug. 20, 1873	195	670
23.	Hartford	Aug. 12, 1874	224	722
24.	Detroit	Aug. 11, 1875	165	807
25.	2nd Buffalo	Aug. 23, 1876	215	867
26.	Nashville	Aug. 29, 1877	173	953
27.	St. Louis	Aug. 21, 1878	134	962
28.	Saratoga	Aug. 27, 1879	256	1030
29.	Boston	Aug. 25, 1880	997	1555
30.	2nd Cincinnati	Aug. 17, 1881	500	1699
31.	2nd Montreal	Aug. 23, 1882	937	1922
32.	Minneapolis	Aug. 15, 1883	328	2033
33.	2nd Philadelphia	Sept. 3, 1884	1261*	1981
34.	Ann Arbor	Aug. 26, 1885	364	1956
35.	3d Buffalo	Aug. 18, 1886	445	1886
36.	New York	Aug. 10, 1887	729	1956
37.	2nd Cleveland	Aug. 14, 1888	342	1964
38.	Toronto	Aug. 26, 1889	424	1952
39.	2d Indianapolis	Aug. 19, 1890	364	1944
40.	2d Washington	Aug. 19, 1891	653†	2054
41.	Rochester	Aug. 17, 1892	456	2037
42.	Madison	Aug. 17, 1893	290	1939
43.	Brooklyn	Aug. 15, 1894	488	1802
44.	Springfield	Aug. 28, 1895		1812

*Including members of the British Association and other foreign guests.
†Including twenty-four Foreign Honorary members for the meeting.

OFFICERS OF THE MEETINGS OF THE ASSOCIATION.

[The number before the name is that of the meeting; the year of the meeting follows the name; the asterisk after a name indicates that the member is deceased.]

PRESIDENTS.

1. { WM. B. ROGERS,* 1848.
   { W. C. REDFIELD,* 1848.
2. JOSEPH HENRY,* 1849.
3, 4, 5. A. D. BACHE,* March meeting, 1850, in absence of JOSEPH HENRY.* August meeting, 1850. May meeting, 1851.
6. LOUIS AGASSIZ,* August meeting, 1851.
   (No meeting in 1852).
7. BENJAMIN PIERCE,* 1853.
8. JAMES D. DANA,* 1854.
9. JOHN TORREY,* 1855.
10. JAMES HALL, 1856.
11, 12. ALEXIS CASWELL,* 1857, in place of J. W. BAILEY,* deceased. 1858, in absence of JEFFRIES WYMAN.*
13. STEPHEN ALEXANDER,* 1859.
14. ISAAC LEA,* 1860.
   (No meetings for 1861–65).
15. F. A. P. BARNARD,* 1866.
16. J. S. NEWBERRY,* 1867.
17. B. A. GOULD, 1868.
18. J. W. FOSTER,* 1869.
19. T. STERRY HUNT,* 1870, in the absence of WM. CHAUVENET.*
20. ASA GRAY,* 1871.
21. J. LAWRENCE SMITH,* 1872.
22. JOSEPH LOVERING,* 1873.
23. J. L. LECONTE,* 1874.
24. J. E. HILGARD,* 1875.
25. WILLIAM B. ROGERS,* 1876.
26. SIMON NEWCOMB, 1877.
27. O. C. MARSH, 1878.
28. G. F. BARKER, 1879.
29. LEWIS H. MORGAN,* 1880.
30. G. J. BRUSH, 1881.
31. J. W. DAWSON, 1882.
32. C. A. YOUNG, 1883.
33. J. P. LESLEY, 1884.
34. H. A. NEWTON, 1885.
35. EDWARD S. MORSE, 1886.
36. S. P. LANGLEY, 1887.
37. J. W. POWELL, 1888.
38. T. C. MENDENHALL, 1889.
39. G. LINCOLN GOODALE, 1890.
40. ALBERT B. PRESCOTT, 1891.
41. JOSEPH LECONTE, 1892.
42. WILLIAM HARKNESS, 1893.
43. DANIEL G. BRINTON, 1894.
44. E. W. MORLEY, 1895.

VICE-PRESIDENTS.

There were no vice-presidents until the 11th meeting when there was a single vice-president for each meeting. At the 24th meeting the Association met in Sections A and B, each presided over by a vice-president. At the 31st meeting nine sections were organized, each with a vice-president as its presiding officer. In 1886, Section G (Microscopy) was given up. In 1892, the Section of Botany was organized as Section G.

1857–1874.

11. ALEXIS CASWELL,* 1857, acted as President.
12. JOHN E. HOLBROOK,* 1858, not present.
13. EDWARD HITCHCOCK,* 1859.
14. B. A. GOULD, 1860.
15. A. A. GOULD,*1866, in absence of R. W. GIBBES.
16. WOLCOTT GIBBS, 1867.
17. CHARLES WHITTLESEY,* 1868.
18. OGDEN N. ROOD, 1869.
19. T. STERRY HUNT,* 1870, acted as President.
20. G. F. BARKER, 1871.
21. ALEXANDER WINCHELL,* 1872.
22. A. H. WORTHEN,* 1873, not present.
23. C. S. LYMAN,* 1874.

1875–1881.

Section A.—Mathematics, Physics and Chemistry.

24. H. A. NEWTON, 1875.
25. C. A. YOUNG, 1876.
26. R. H. THURSTON, 1877, in the absence of E. C. PICKERING.
27. R. H. THURSTON, 1878.
28. S. P. LANGLEY, 1879.
29. ASAPH HALL, 1880.
30. WILLIAM HARKNESS, 1881, in the absence of A. M. MAYER.

Section B.—Natural History.

24. J. W. DAWSON, 1875.
25. EDWARD S. MORSE, 1876.
26. O. C. MARSH, 1877.
27. AUG. R. GROTE, 1878.
28. J. W. POWELL, 1879.
29. ALEXANDER AGASSIZ, 1880.
30. EDWARD T. COX, 1881, in the absence of GEORGE ENGELMANN.*

CHAIRMEN OF SUBSECTIONS, 1875–1881.

Subsection of Chemistry.

24. S. W. JOHNSON, 1875.
25. G. F. BARKER, 1876.
26. N. T. LUPTON, 1877.
27. F. W. CLARKE, 1878.
28. F. W. CLARKE, 1879, in the absence of IRA REMSEN.
29. J. M. ORDWAY, 1880.
30. G. C. CALDWELL, 1881, in the absence of W. R. NICHOLS.*

Subsection of Microscopy.

25. R. H. WARD, 1876.
26. R. H. WARD, 1877.
27. R. H. WARD, 1878, in the absence of G. S. BLACKIE.*
28. E. W. MORLEY, 1879.
29. S. A. LATTIMORE, 1880.
30. A. B. HERVEY, 1881.

Subsection of Anthropology.

24. LEWIS H. MORGAN,* 1875.
25. LEWIS H. MORGAN,* 1876.
26. DANIEL WILSON,* 1877, not present
27. United with Section B.
28. DANIEL WILSON,* 1879.
29. J. W. POWELL, 1880.
30. GARRICK MALLERY,* 1881.

Subsection of Entomology.

30. J. G. MORRIS, 1881.

VICE PRESIDENTS OF SECTIONS, 1882–

Section A.—Mathematics and Astronomy.

31. W. A. ROGERS, 1882, in the absence of WILLIAM HARKNESS.
32. W. A. ROGERS, 1883.
33. H. T. EDDY, 1884.
34. WILLIAM HARKNESS, 1885, in the absence of J. M. VAN VLECK.
35. J. W. GIBBS, 1886.
36. J. R. EASTMAN, 1887, in place of W. FERREL,* resigned.
37. ORMOND STONE, 1888.
38. R. S. WOODWARD, 1889.
39. S. C. CHANDLER, 1890.
40. E. W. HYDE, 1891.
41. J. R. EASTMAN, 1892.
42. C. L. DOOLITTLE, 1893.
43. { G. C. COMSTOCK, 1894. EDGAR FRISBY, 1894.
44. 1895.

Section B.—Physics.

31. T. C. MENDENHALL, 1882.
32. H. A. ROWLAND, 1883
33. J. TROWBRIDGE, 1884.
34. S. P. LANGLEY, 1885, in place of C. F. BRACKETT, resigned.
35. C. F. BRACKETT, 1886.
36. W. A. ANTHONY, 1887.
37. A. A. MICHELSON, 1888.
38. H. S. CARHART, 1889.
39. CLEVELAND ABBE, 1890.
40. F. E. NIPHER, 1891.
41. B. F. THOMAS, 1892.
42. E. L. NICHOLS, 1893.
43. WM. A. ROGERS, 1894.
44. W. LECONTE STEVENS, 1895.

Section C.—Chemistry.

31. H. C. BOLTON, 1882.
32. E. W. MORLEY, 1883.
33. J. W. LANGLEY, 1884.
34. N. T. LUPTON, 1885, in absence of W. R. NICHOLS.*
35. H. W. WILEY, 1886.
36. A. B. PRESCOTT, 1887.
37. C. E. MUNROE, 1888.
38. W. L. DUDLEY, 1889.
39. R. B. WARDER, 1890.
40. R. C. KEDZIE, 1891.
41. ALFRED SPRINGER, 1892.
42. EDWARD HART, 1893.
43. T. H. NORTON, 1894.
44. WM. MCMURTRIE, 1895.

Section D.—Mechanical Science and Engineering.

31. W. P. TROWBRIDGE,* 1882.
32. DE VOLSON WOOD, 1883, absent, but place was not filled.
33. R. H. THURSTON, 1884.
34. J. BURKITT WEBB, 1885.
35. O. CHANUTE, 1886.
36. E. B. COXE, 1887.
37. C. J. H. WOODBURY, 1888.
38. JAMES E. DENTON, 1889; 1890, in place of ARTHUR BEARDSLEY unavoidably absent.
39. THOMAS GRAY, 1891.
40. J. B. JOHNSON, 1892.
41. S. W. ROBINSON, 1893.
42. MANSFIELD MERRIMAN, 1894.
43. WILLIAM KENT, 1895.

VICE PRESIDENTS OF SECTIONS, CONTINUED.

Section E.—Geology and Geography.

31. E. T. COX, 1882.
32. C. H. HITCHCOCK, 1883.
33. N. H. WINCHELL, 1884.
34. EDWARD ORTON, 1885.
35. T. C. CHAMBERLIN, 1886
36. G. K. GILBERT, 1887.
37. GEORGE H. COOK,* 1888.
38. CHARLES A. WHITE, 1889.
39. JOHN C. BRANNER, 1890.
40. J. J. STEVENSON, 1891.
41. H. S. WILLIAMS, 1892.
42. CHARLES D. WALCOTT, 1893.
43. SAMUEL CALVIN, 1894.
44. JED. HOTCHKISS, 1895.

Section F.—Biology.

31. W. H. DALL, 1882.
32. W. J. BEAL, 1883.
33. E. D. COPE, 1884.
34. T. J. BURRILL, 1885, in the absence of B. G. WILDER.
35. H. P. BOWDITCH, 1886.
36. W. G. FARLOW, 1887.
37. C. V. RILEY, 1888.
38. GEORGE L. GOODALE, 1889.
39. C. S. MINOT, 1890.
40. J. M. COULTER, 1891.
41. S. H. GAGE, 1892.

Section F.— Zoölogy.

42. HENRY F. OSBORN, 1893.
43. J. A. LINTNER, 1894, in place of S. H. SCUDDER, resigned.
44. 1895.

Section G.—Microscopy.

31. A. H. TUTTLE, 1882.
32. J. D. COX, 1883.
33. T. G. WORMLEY, 1884.
34. S. H. GAGE, 1885.

(Section united with F in 1886.)

Section G.—Botany.

42. CHARLES E. BESSEY, 1893
43. { L. M. UNDERWOOD, 1894. C. E. BESSEY, 1894.
44. J. C. ARTHUR, 1895.

Section H.—Anthropology.

31. ALEXANDER WINCHELL,* 1882.
32. OTIS T. MASON, 1883.
33. EDWARD S. MORSE, 1884.
34. J. OWEN DORSEY, 1885, in absence of W. H. DALL.
35. HORATIO HALE, 1886.
36. D. G. BRINTON, 1887.
37. CHARLES C. ABBOTT, 1888.
38. GARRICK MALLERY,* 1889.
39. FRANK BAKER, 1890.
40. JOSEPH JASTROW, 1891.
41. W. H. HOLMES, 1892.
42. J. OWEN DORSEY,* 1893.
43. FRANZ BOAS, 1894.
44. F. H. CUSHING, 1895.

Section I.—Economic Science and Statistics.

31. E. B. ELLIOTT,* 1882.
32. FRANKLIN B. HOUGH,* 1883.
33. JOHN EATON,* 1884.
34. EDWARD ATKINSON, 1885.
35. JOSEPH CUMMINGS,* 1886.
36. H. E. ALVORD, 1887.
37. CHARLES W. SMILEY, 1888.
38. CHARLES S. HILL, 1889.
39. J. RICHARDS DODGE, 1890.
40. EDMUND J. JAMES, 1891.
41. LESTER F. WARD, 1892, in place of S. DANA HORTON, resigned.
42. WILLIAM H. BREWER, 1893.
43. HENRY FARQUHAR, 1894.
44. B. E. FERNOW, 1895.

SECRETARIES.

General Secretaries, 1848–

1. WALTER R. JOHNSON,* 1848.
2. EBEN N. HORSFORD,* 1849, in the absence of JEFFRIES WYMAN.*
3. L. R. GIBBS, 1850, in absence of E. C. HERRICK.*
4. E. C. HERRICK,* 1850.
5. WILLIAM B. ROGERS,* 1851, in absence of E. C. HERRICK.*
6. WILLIAM B. ROGERS,* 1851.
7. S. ST. JOHN,* 1853, in absence of J. D. DANA.
8. J. LAWRENCE SMITH,* 1854.
9. WOLCOTT GIBBS, 1855.
10. B. A. GOULD, 1856.
11. JOHN LECONTE,* 1857.
12. W. M. GILLESPIE,* 1858, in absence of WM. CHAUVENET.
13. WILLIAM CHAUVENET,* 1859.
14. JOSEPH LECONTE, 1860.
15. ELIAS LOOMIS,* 1866, in the absence of W. P. TROWBRIDGE.*
16. C. S LYMAN,* 1867.
17. SIMON NEWCOMB, 1868, in place of A. P. ROCKWELL, called home.
18. O. C. MARSH, 1869.
19. F. W. PUTNAM, 1870, in absence of C. F. HARTT.*
20. F. W. PUTNAM, 1871.
21. EDWARD S. MORSE, 1872.
22. C. A. WHITE, 1873.
23. A. C. HAMLIN, 1874.
24. S. H. SCUDDER, 1875.
25. T. C. MENDENHALL, 1876.
26. AUG. R. GROTE, 1877.
27. H. C. BOLTON, 1878.
28. H. C. BOLTON, 1879, in the absence of GEORGE LITTLE.
29. J. K. REES, 1880.
30. C. V. RILEY, 1881.
31. WILLIAM SAUNDERS, 1882.
32. J. R. EASTMAN, 1883.
33. ALFRED SPRINGER, 1884.
34. C. S. MINOT, 1885.
35. S. G. WILLIAMS, 1886.
36. WILLIAM H. PETTEE, 1887.
37. JULIUS POHLMAN, 1888.
38. C. LEO MEES, 1889.
39. H. C. BOLTON, 1890.
40. H. W. WILEY, 1891.
41. A. W. BUTLER, 1892.
42. T. H. NORTON, 1893.
43. H. L. FAIRCHILD, 1894.
44. JAS. LEWIS HOWE, 1895.

Permanent Secretaries, 1851–

5–7. SPENCER F. BAIRD,* 1851–3.
8–17. JOSEPH LOVERING,* 1854–68.
18. F. W. PUTNAM, 1869, in the absence of J. LOVERING.*
19–21. JOSEPH LOVERING,* 1870–72.
22–23. F. W. PUTNAM, 1873–74.
24–28. F. W. PUTNAM, 1875–79.
29–33. F. W. PUTNAM, 1880–84.
34–38. F. W. PUTNAM, 1885–89.
39–43. F. W. PUTNAM, 1890–94.
44–48. F. W. PUTNAM, 1895–99.

Assistant General Secretaries, 1882–1887.

31. J. R. EASTMAN, 1882.
32. ALFRED SPRINGER, 1883.
33. C. S. MINOT, 1884, in the absence of E. S. HOLDEN.
34. S. G. WILLIAMS, 1885, in the absence of C. C. ABBOTT.
35. W. H. PETTEE, 1886.
36. J. C. ARTHUR, 1887.

Secretaries of the Council, 1888–

37. C. LEO MEES, 1888.
38. H. C. BOLTON, 1889.
39. H. W. WILEY, 1890.
40. A. W. BUTLER, 1891.
41. T. H. NORTON, 1892.
42. H. LEROY FAIRCHILD, 1893.
43. JAS. LEWIS HOWE, 1894.
44. CHARLES R. BARNES, 1895.

Secretaries of Section A.—Mathematics, Physics and Chemistry, 1875–81.

24. { S. P. LANGLEY, 1875.
    { T. C. MENDENHALL, 1875.
25. A. W. WRIGHT, 1876.
26. H. C. BOLTON, 1877.
27. F. E. NIPHER, 1878.
28. J. K. REES, 1879.
29. H. B. MASON, 1880.
30. E. T. TAPPAN, 1881, in the absence of JOHN TROWBRIDGE.

Secretaries of Section B.— Natural History, 1875–81.

24. EDWARD S. MORSE, 1875.
25. ALBERT H. TUTTLE, 1876.
26. WILLIAM H. DALL, 1877.
27. GEORGE LITTLE, 1878.
28. WILLIAM H. DALL, 1879, in the absence of A. C. WETHERBY.
29. CHARLES V. RILEY, 1880.
30. WILLIAM SAUNDERS, 1881.

SECRETARIES OF SUBSECTIONS, 1875–81.

Subsection of Chemistry.

24. F. W. CLARKE, 1875.
25. H. C. BOLTON, 1876.
26. P. SCHWEITZER, 1877.
27. A. P. S. STUART, 1878.
28. W. R. NICHOLS,* 1879.
29. C. E. MUNROE, 1880.
30. ALFRED SPRINGER, 1881, in the absence of R. B. WARDER.

Subsection of Entomology.

30. B P. MANN, 1881.

Subsection of Anthropology.

24. F. W. PUTNAM, 1875.
25. OTIS T. MASON, 1876.
26, 27. United with Section B.
28, 29, 30. J. G. HENDERSON, 1879–81.

Subsection of Microscopy.

25. E. W. MORLEY, 1876.
26. T. O. SOMMERS, JR., 1877.
27. G. J. ENGELMANN, 1878.
28, 29. A. B. HERVEY, 1879-1880.
30. W. H. SEAMAN, 1881, in the absence of S. P. SHARPLES.

SECRETARIES OF THE SECTIONS, 1882–

Section A.—Mathematics and Astronomy.

31. H. T. EDDY, 1882.
32. G. W. HOUGH, 1883, in the absence of W. W. JOHNSON.
33. G. W. HOUGH, 1884.
34. E. W. HYDE, 1885.
35. S. C. CHANDLER, 1886.
36. H. M. PAUL, 1887.
37. C. C. DOOLITTLE, 1888.
38. G. C. COMSTOCK, 1889.
39. W. W. BEMAN, 1890.
40. F. H. BIGELOW, 1891.
41. WINSLOW UPTON, 1892.
42. C. A. WALDO, 1893, in the absence of A. W. PHILLIPS.
43. J. C. KERSHNER, 1894, in place of W. W. BEMAN, resigned.
44. 1895.

Section B.—Physics.

31. C. S. HASTINGS, 1882.
32. F. E. NIPHER, 1883, in the absence of C. K. WEAD.
33. N. D. C. HODGES, 1884.
34. B. F. THOMAS, 1885, in place of A. A. MICHELSON, resigned.
35. H. S. CARHART, 1886.
36. C. LEO MEES, 1887.
37. ALEX. MACFARLANE, 1888.
38. E. L. NICHOLS, 1889.
39. E. M. AVERY, 1890.
40. ALEX. MACFARLANE, 1891.
41. BROWN AYRES, 1892.
42. W. LECONTE STEVENS, 1893.
43. B. W. SNOW, 1894.
44. E. MERRITT, 1895.

SECRETARIES OF THE SECTIONS, CONTINUED.

Section C.—Chemistry.

31. ALFRED SPRINGER, 1882.
32. { J. W. LANGLEY, 1883.
    { W. MCMURTRIE, 1883.
33. H. CARMICHAEL, 1884, in the absence of R. B. WARDER.
34. F. P. DUNNINGTON, 1885.
35. W. MCMURTRIE, 1886.
36. C. S. MABERY, 1887.
37. W. L. DUDLEY, 1888.
38. EDWARD HART, 1889.
39. W. A. NOYES, 1890.
40. T. H. NORTON, 1891.
41. JAS. LEWIS HOWE, 1892.
42. H. N. STOKES, 1893, in the absence of J. U. NEF.
43. MORRIS LOEB, 1894, in place of S. M. BABCOCK, resigned.
44. W. P. MASON, 1895.

Section D.—Mechanical Science and Engineering.

31. J. BURKITT WEBB, 1882, in the absence of C. R. DUDLEY.
32. J. BURKITT WEBB, 1883, *pro tempore.*
33. J. BURKITT WEBB, 1884.
34. C. J. H. WOODBURY, 1885
35. WILLIAM KENT, 1886.
36. G. M. BOND, 1887.
37. ARTHUR BEARDSLEY, 1888.
38. W. B. WARNER, 1889.
39. THOMAS GRAY, 1890.
40. WILLIAM KENT, 1891.
41. O. H. LANDRETH, 1892.
42. D. S. JACOBUS, 1893.
43. JOHN H. KINEALY, 1894.
44. H. S. JACOBY, 1895.

Section E.—Geology and Geography.

31. H. S. WILLIAMS, 1882, in the absence of C. E. DUTTON.
32. A. A. JULIEN, 1883.
33. E. A. SMITH, 1884.
34. G. K. GILBERT, 1885, in the absence of H. C. LEWIS.*
35. E. W. CLAYPOLE, 1886.
36. W. M. DAVIS, 1887, in the absence of T. B. COMSTOCK.
37. JOHN C. BRANNER, 1888.
38. JOHN C. BRANNER, 1889.
39. SAMUEL CALVIN, 1890.
40. W J MCGEE, 1891.
41. R D. SALISBURY, 1892.
42. W. H. HOBBS, 1893, in place of R. T. HILL, resigned.
43. JED. HOTCHKISS, 1894, in place of W. M. DAVIS, resigned.
44. J. PERRIN SMITH, 1895.

Section F.—Biology, 1882–92.

31. WILLIAM OSLER, 1882, in the absence of C. S. MINOT.
32. S. A. FORBES, 1883.
33. C. E. BESSEY, 1884.
34. J. A. LINTNER, 1885, in place of C. H. FERNALD, resigned.
35. J. C. ARTHUR, 1886.
36. J. H. COMSTOCK, 1887.
37. B. H. FERNOW, 1888.
38. A. W. BUTLER, 1889.
39. J. M. COULTER, 1890.
40. A. J. COOK, 1891.
41. B. D. HALSTED, 1892.

Section F.—Zoölogy.

42. L. O. HOWARD, 1893.
43. JOHN B. SMITH, 1894, in place of WM. LIBBY, jr., resigned.
44. 1895.

SECRETARIES OF THE SECTIONS, CONTINUED.

Section G.—Microscopy, 1882–85.

31. ROBERT BROWN, JR., 1882.
32. CARL SEILER, 1883.
33. ROMYN HITCHCOCK, 1884.
34. W. H. WALMSLEY, 1885.

Section G.—Botany.

42. B. T. GALLOWAY, 1893, in the absence of F. V. COVILLE.
43. CHARLES R. BARNES, 1894.
44. B. T. GALLOWAY, 1895.

Section H.—Anthropology.

31. OTIS T. MASON, 1882.
32. G. H. PERKINS, 1883.
33. G. H. PERKINS, 1884, in the absence of W. H. HOLMES.
34. ERMINNIE A. SMITH,* 1885.
35. A. W. BUTLER, 1886.
36. CHARLES C. ABBOTT, 1887, in absence of F. W. LANGDON.
37. FRANK BAKER, 1888.
38. W. M. BEAUCHAMP, 1889.
39. JOSEPH JASTROW, 1890.
40. W. H. HOLMES, 1891.
41. W. M. BEAUCHAMP, 1892, in place of S. CULIN, resigned.
42. WARREN K. MOOREHEAD, 1893.
43. A. F. CHAMBERLIN, 1894.
44. ANITA NEWCOMB MCGEE, 1895.

Section I.—Economic Science and Statistics.

31. { FRANKLIN B. HOUGH,* 1882.
{ J. RICHARDS DODGE, 1882.
32. JOSEPH CUMMINGS,* 1883.
33. CHARLES W. SMILEY, 1884.
34. CHARLES W. SMILEY, 1885, in absence of J. W. CHICKERING.
35. H. E. ALVORD, 1886.
36. W. R. LAZENBY, 1887.
37. CHARLES S. HILL, 1888.
38. J. RICHARDS DODGE, 1889.
39. B. E. FERNOW, 1890.
40. B. E. FERNOW, 1891.
41. HENRY FARQUHAR, 1892, in place of L. F. WARD made Vice-president.
42. NELLIE S. KEDZIE, 1893.
43. MANLEY MILES, 1894.
44. 1895.

TREASURERS.

1. JEFFRIES WYMAN*, 1848.
2. A. L. ELWYN,* 1849.
3. ST. J. RAVENEL,* 1850, in the absence of A. L. ELWYN.*
4. A. L. ELWYN,* 1850.
5. SPENCER F. BAIRD,* 1851, in absence of A. L. ELWYN.*

6–7. A.L. ELWYN,* 1851–1853.

8. J. L. LECONTE,* 1854, in absence of A. L. ELWYN.*

9–19. A. L. ELWYN,* 1855–1870.

20–30. WILLIAM S. VAUX,* 1871–1881.

32–42. WILLIAM LILLY,*1882–1893.

43–44. R. S. WOODWARD, 1894–1895.

COMMONWEALTH OF MASSACHUSETTS.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND SEVENTY-FOUR.

AN ACT

To Incorporate the "American Association for the Advancement of Science."

Be it enacted by the Senate and House of Representatives, in General Court assembled, and by the authority of the same, as follows:

Section 1. Joseph Henry of Washington, Benjamin Pierce of Cambridge, James D. Dana of New Haven, James Hall of Albany, Alexis Caswell of Providence, Stephen Alexander of Princeton, Isaac Lea of Philadelphia, F. A. P. Barnard of New York, John S. Newberry of Cleveland, B. A. Gould of Cambridge, T. Sterry Hunt of Boston, Asa Gray of Cambridge, J. Lawrence Smith of Louisville, Joseph Lovering of Cambridge and John LeConte of Philadelphia, their associates, the officers and members of the Association, known as the "American Association for the Advancement of Science," and their successors, are hereby made a corporation by the name of the "American Association for the Advancement of Science," for the purpose of receiving, purchasing, holding and conveying real and personal property, which it now is, or hereafter may be, possessed of, with all the powers and privileges, and subject to the restrictions, duties and liabilities set forth in the general laws which now or hereafter may be in force and applicable to such corporations.

Section 2. Said corporation may have and hold by purchase, grant, gift or otherwise, real estate not exceeding one hundred thousand dollars in value, and personal estate of the value of two hundred and fifty thousand dollars.

Section 3. Any two of the corporators above named are hereby authorized to call the first meeting of the said corporation in the month of August next ensuing, by notice thereof "by mail," to each member of the said Association.

Section 4. This act shall take effect upon its passage.

House of Representatives, March 10, 1874.
Passed to be enacted,
John F. Sanford, *Speaker.*

In Senate, March 17, 1874.
Passed to be enacted.
Geo. B. Loring, *President.*

March 19, 1874.
Approved,
W. B. Washburn.

Secretary's Department,
Boston, April 3, 1874.
A true copy, Attest:
David Pulsifer,
Deputy Secretary of the Commonwealth.

CONSTITUTION

OF THE

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

Incorporated by Act of the General Court of the Commonwealth of Massachusetts.

OBJECTS.

ARTICLE 1. The objects of the Association are, by periodical and migratory meetings, to promote intercourse between those who are cultivating science in different parts of America, to give a stronger and more general impulse and more systematic direction to scientific research, and to procure for the labors of scientific men increased facilities and a wider usefulness.

MEMBERS, FELLOWS, PATRONS AND HONORARY FELLOWS.

ART. 2. The Association shall consist of Members, Fellows, Patrons, Corresponding Members and Honorary Fellows.

ART. 3. Any person may become a Member of the Association upon recommendation in writing by two members or fellows, and election by the Council.

ART. 4. Fellows shall be elected by the Council from such of the members as are professionally engaged in science, or have by their labors aided in advancing science. The election of fellows shall be by ballot and a majority vote of the members of the Council at a designated meeting of the Council.

ART. 5. Any person paying to the Association the sum of one thousand dollars shall be classed as a Patron, and shall be entitled to all the privileges of a member and to all its publications.

ART. 6. Honorary Fellows of the Association, not exceeding three for each section, may be elected; the nominations to be made by the Council and approved by ballot in the respective sections before election by ballot in General Session. Honorary Fellows shall be entitled to all the privileges of Fellows and shall be exempt from all fees and assessments, and entitled to all publications of the Association issued after the date of their election. Corresponding Members shall consist of such scientists not re-

siding in America as may be elected by the Council, and their number shall be limited to fifty. Corresponding Members shall be entitled to all the privileges of members and to the annual volumes of Proceedings published subsequent to their election.

ART. 7. The name of any member or fellow two years in arrears for annual dues shall be erased from the list of the Association, provided that two notices of indebtedness, at an interval of at least three months, shall have been given; and no such person shall be restored until he has paid his arrearages or has been reëlected. The Council shall have power to exclude from the Association any member or fellow, on satisfactory evidence that said member or fellow is an improper person to be connected with the Association, or has in the estimation of the Council made improper use of his membership or fellowship.

ART. 8. No member or fellow shall take part in the organization of, or hold office in, more than one section at any one meeting.

OFFICERS.

ART. 9. The Officers of the Association shall be elected by ballot in General Session from the fellows, and shall consist of a President, a Vice-President from each section, a Permanent Secretary, a General Secretary, a Secretary of the Council, a Treasurer, and a Secretary of each Section; these, with the exception of the Permanent Secretary, shall be elected at each meeting for the following one, and, with the exception of the Treasurer and the Permanent Secretary, shall not be reëligible for the next two meetings. The term of office of Permanent Secretary shall be five years.

ART. 10. The President, or, in his absence, the senior Vice President present, shall preside at all General Sessions of the Association and at all meetings of the Council. It shall also be the duty of the President to give an address at a General Session of the Association at the meeting following that over which he presided.

ART. 11. The Vice Presidents shall be chairmen of their respective Sections, and of their Sectional Committees, and it shall be part of their duty to give an address, each before his own section, at such time as the Council shall determine. The Vice Presidents may appoint temporary chairmen to preside over the sessions of their sections, but shall not delegate their other duties. The Vice Presidents shall have seniority in order of their continuous membership in the Association.

ART. 12. The General Secretary shall be the Secretary of all General Sessions of the Association, and shall keep a record of the business of

these sessions. He shall receive the records from the Secretaries of the Sections, which, after examination, he shall transmit with his own records to the Permanent Secretary within two weeks after the adjournment of the meeting.

ART. 13. The Secretary of the Council shall keep the records of the Council. He shall give to the Secretary of each Section the titles of papers assigned to it by the Council. He shall receive proposals for membership and bring them before the Council.

ART. 14. The Permanent Secretary shall be the executive officer of the Association under the direction of the Council. He shall attend to all business not specially referred to committees nor otherwise constitutionally provided for. He shall keep an account of all business that he has transacted for the Association, and make annually a general report for publication in the annual volume of Proceedings. He shall attend to the printing and distribution of the annual volume of Proceedings, and all other printing ordered by the Association. He shall issue a circular of information to members and fellows at least three months before each meeting, and shall, in connection with the Local Committee, make all necessary arrangements for the meetings of the Association. He shall provide the Secretaries of the Association with such books and stationery as may be required for their records and business, and shall provide members and fellows with such blank forms as may be required for facilitating the business of the Association. He shall collect all assessments and admission fees, and notify members and fellows of their election, and of any arrearages. He shall receive, and bring before the Council, the titles and abstracts of papers proposed to be read before the Association. He shall keep an account of all receipts and expenditures of the Association, and report the same annually at the first meeting of the Council, and shall pay over to the Treasurer such unexpended funds as the Council may direct. He shall receive and hold in trust for the Association all books, pamphlets and manuscripts belonging to the Association, and allow the use of the same under the provisions of the Constitution and the orders of the Council. He shall receive all communications addressed to the Association during the interval between meetings, and properly attend to the same. He shall at each meeting report the names of fellows and members who have died since the preceding meeting. He shall be allowed a salary which shall be determined by the Council, and may employ one or more clerks at such compensation as may be agreed upon by the Council.

ART. 15. The Treasurer shall invest the funds received by him in such securities as may be directed by the Council. He shall annually present to the Council an account of the funds in his charge. No expenditure of the principal in the hands of the Treasurer shall be made without a unanimous vote of the Council, and no expenditure of the income received by the Treasurer shall be made without a two-thirds vote of the Council.

ART. 16. The Secretaries of the Sections shall keep the records of their respective sections, and, at the close of the meeting, give the same, including the records of subsections, to the General Secretary. They shall also be the Secretaries of the Sectional Committees. The Secretaries shall have seniority in order of their continuous membership in the Association.

ART. 17. In case of a vacancy in the office of the President, one of the Vice Presidents shall be elected by the Council as the President of the meeting. Vacancies in the offices of Vice President, Permanent Secretary, General Secretary, Secretary of the Council, and Treasurer, shall be filled by nomination of the Council and election by ballot in General Session. A vacancy in the office of Secretary of a Section shall be filled by nomination and election by ballot in the Section.

ART. 18. The Council shall consist of the past Presidents, and the Vice Presidents of the last meeting, together with the President, the Vice Presidents, the Permanent Secretary, the General Secretary, the Secretary of the Council, the Secretaries of the Sections, and the Treasurer of the current meeting, with the addition of one fellow elected from each Section by ballot on the first day of its meeting. The members present at any regularly called meeting of the Council, provided there are at least five, shall form a quorum for the transaction of business. The Council shall meet on the day preceding each annual meeting of the Association, and arrange the programme for the first day of the sessions. The time and place of this first meeting shall be designated by the Permanent Secretary. Unless otherwise agreed upon, regular meetings of the Council shall be held in the council room at 9 o'clock, A. M., on each day of the meeting of the Association. Special meetings of the Council may be called at any time by the President. The Council shall be the board of supervision of the Association, and no business shall be transacted by the Association that has not first been referred to, or originated with, the Council. The Council shall receive and assign papers to the respective sections; examine and, if necessary, exclude papers; decide which papers, discussions and other proceedings shall be published, and have the general direction of the pub-

lications of the Association; manage the financial affairs of the Association; arrange the business and programmes for General Sessions; suggest subjects for discussion, investigation or reports; elect members and fellows; and receive and act upon all invitations extended to the Association and report the same at a General Session of the Association. The Council shall receive all reports of Special Committees and decide upon them, and only such shall be read in General Session as the Council shall direct. The Council shall appoint at each meeting the following sub-committees who shall act, subject to appeal to the whole Council, until their successors are appointed at the following meeting: 1, on Papers and Reports; 2, on Members; 3, on Fellows.

ART. 19. The Nominating Committee shall consist of the Council, and one member or fellow elected by each of the Sections. It shall be the duty of this Committee to meet at the call of the President and nominate the general officers for the following meeting of the Association. It shall also be the duty of this Committee to recommend the time and place for the next meeting. The Vice President and Secretary of each Section shall be recommended to the Nominating Committee by a sub-committee consisting of the Vice President, Secretary, and three members or fellows elected by the Section.

MEETINGS.

ART. 20. The Association shall hold a public meeting annually, for one week or longer, at such time and place as may be determined by vote of the Association, and the preliminary arrangements for each meeting shall be made by the Local Committee, in conjunction with the Permanent Secretary and such other persons as the Council may designate.

ART. 21. A General Session shall be held at 10 o'clock A. M., on the first day of the meeting, and at such other times as the Council may direct.

SECTIONS AND SUBSECTIONS.

ART. 22. The Association shall be divided into Sections, namely:— A, *Mathematics and Astronomy;* B, *Physics;* C, *Chemistry, including its application to agriculture and the arts;* D, *Mechanical Science and Engineering;* E, *Geology and Geography;* F, *Zoölogy;* G, *Botany;* H, *Anthropology;* I, *Economic Science and Statistics.* The Council shall have power to consolidate any two or more Sections temporarily, and such consolidated Sections shall be presided over by the senior Vice President and Secretary of the Sections comprising it.

ART. 23. Immediately on the organization of a Section there shall be three fellows elected by ballot after open nomination, who, with the Vice President and Secretary and the Vice President and Secretary of the preceding meeting shall form its Sectional Committee. The Sectional Committees shall have power to fill vacancies in their own numbers. Meetings of the Sections shall not be held at the same time with a General Session.

ART. 24. The Sectional Committee of any Section may at its pleasure form one or more temporary Subsections, and may designate the officers thereof. The Secretary of a Subsection shall, at the close of the meeting, transmit his records to the Secretary of the Section.

ART. 25. A paper shall not be read in any Section or Subsection until it has been received from the Council and placed on the programme of the day by the Sectional Committee.

SECTIONAL COMMITTEES.

ART. 26. The Sectional Committees shall arrange and direct the business of their respective Sections. They shall prepare the daily programmes and give them to the Permanent Secretary for printing at the earliest moment practicable. No titles of papers shall be entered on the daily programmes except such as have passed the Council. No change shall be made in the programme for the day in a Section without the consent of the Sectional Committee. The Sectional Committees may refuse to place the title of any paper on the programme; but every such title, with the abstract of the paper or the paper itself, must be returned to the Council with the reasons why it was refused.

ART. 27. The Sectional Committees shall examine all papers and abstracts referred to the sections, and they shall not place on the programme any paper inconsistent with the character of the Association; and to this end they have power to call for any paper, the character of which may not be sufficiently understood from the abstract submitted.

PAPERS AND COMMUNICATIONS.

ART. 28. All members and fellows must forward to the Permanent Secretary, as early as possible, and when practicable before the convening of the Association, full titles of all the papers which they propose to present during the meeting, with a statement of the time that each will occupy in delivery, and also such abstracts of their contents as will give a general idea of their nature; and no title shall be referred by the Council to the Sectional Committee until an abstract of the paper or the paper itself has been received.

ART. 29. If the author of any paper be not ready at the time assigned, the title may be dropped to the bottom of the list.

ART. 30. Whenever practicable, the proceedings and discussions at General Sessions, Sections and Subsections shall be reported by professional reporters, but such reports shall not appear in print as the official reports of the Association unless revised by the Secretaries.

PRINTED PROCEEDINGS.

ART. 31. The Permanent Secretary shall have the Proceedings of each meeting printed in an octavo volume as soon after the meeting as possible, beginning one month after adjournment. Authors must prepare their papers or abstracts ready for the press, and these must be in the hands of the Secretaries of the Sections before the final adjournment of the meeting, otherwise only the titles will appear in the printed volume. The Council shall have power to order the printing of any paper by abstract or title only. Whenever practicable, proofs shall be forwarded to authors for revision. If any additions or substantial alterations are made by the author of a paper after its submission to the Secretary, the same shall be distinctly indicated. Illustrations must be provided for by the authors of the papers, or by a special appropriation from the Council. Immediately on publication of the volume, a copy shall be forwarded to every member and fellow of the Association who shall have paid the assessment for the meeting to which it relates, and it shall also be offered for sale by the Permanent Secretary at such price as may be determined by the Council. The Council shall also designate the institutions to which copies shall be distributed.

LOCAL COMMITTEE.

ART. 32. The Local Committee shall consist of persons interested in the objects of the Association and residing at or near the place of the proposed meeting. It is expected that the Local Committee, assisted by the officers of the Association, will make all essential arrangements for the meeting, and issue a circular giving necessary particulars, at least one month before the meeting.

LIBRARY OF THE ASSOCIATION.

ART. 33. All books and pamphlets received by the Association shall be in the charge of the Permanent Secretary, who shall have a list of the same printed and shall furnish a copy to any member or fellow on application. Members and fellows who have paid their assessments in full shall be allowed to call for books and pamphlets, which shall be delivered

to them at their expense, on their giving a receipt agreeing to make good any loss or damage and to return the same free of expense to the Secretary at the time specified in the receipt given. All books and pamphlets in circulation must be returned at each meeting. Not more than five books, including volumes, parts of volumes, and pamphlets, shall be held at one time by any member or fellow. Any book may be withheld from circulation by order of the Council.

Admission Fee and Assessments.

Art. 34. The admission fee for members shall be five dollars in addition to the annual assessment. On the election of any member as a fellow an additional fee of two dollars shall be paid.

Art. 35. The annual assessment for members and fellows shall be three dollars.

Art. 36. Any member or fellow who shall pay the sum of fifty dollars to the Association, at any one time, shall become a Life Member and as such shall be exempt from all further assessments, and shall be entitled to the Proceedings of the Association. All money thus received shall be invested as a permanent fund, the income of which, during the life of the member, shall form a part of the general fund of the Association; but, after his death, shall be used only to assist in original research, unless otherwise directed by unanimous vote of the Council.

Art. 37. All admission fees and assessments must be paid to the Permanent Secretary, who shall give proper receipts for the same.

Accounts.

Art. 38. The accounts of the Permanent Secretary and of the Treasurer shall be audited annually, by Auditors appointed by the Council.

Alterations of the Constitution.

Art. 39. No part of this Constitution shall be amended or annulled, without the concurrence of three-fourths of the members and fellows present in General Session, after notice given at a General Session of a preceding meeting of the Association.

MEMBERS

OF THE

AMERICAN ASSOCIATION

FOR THE

ADVANCEMENT OF SCIENCE.[1]

PATRONS.[2]

THOMPSON, MRS. ELIZABETH, Stamford, Conn. (22).
LILLY, GEN. WILLIAM, Mauch Chunk, Pa. (28). (Died Dec 1, 1893.)
HERRMAN, MRS. ESTHER, 59 West 56th St., New York, N. Y. (29).

CORRESPONDING MEMBERS.[3]

Warington, Robert, F.R.S., Rothamsted, Harpenden, England (40). **C**

MEMBERS.[4]

Abbe, Cleveland, jr., 2017 I St., Washington, D. C. (44). **E**
Abraham, Abraham, Brooklyn, N. Y. (43).
Adams, C. E., M.D., Ballentine Gymnasium, New Brunswick, N. J. (43). **F**
Adriance, John S., 231 Broadway, New York, N. Y. (39). **C**
Aitkin, Miss Clara I., 210 Madison St., Brooklyn, N. Y. (40). **H**
Aitkin, Miss Helen J., 210 Madison St., Brooklyn, N. Y. (40). **E H**

[1] The numbers in parentheses indicate the meeting at which the member was elected. The black letters at the end of line indicate the sections to which members elect to belong. The Constitution requires that the names of all members two or more years in arrears shall be omitted from the list, but their names will be restored on payment of arrearages. Members not in arrears are entitled to the annual volume of Proceedings bound in paper. *The payment of ten dollars at one time entitles a member to the subsequent volumes to which he may be entitled, bound in cloth, or by the payment of twenty dollars, to such volumes bound in half morocco.*

[2] Persons contributing one thousand dollars or more to the Association are classed as Patrons, and are entitled to the privileges of members and to the publications.

The names of Patrons are to remain permanently on the list.

[3] See ARTICLE VI of the Constitution.

[4] Any Member or Fellow may become a Life Member by the payment of fifty dollars. The income of the money derived from a Life Membership is used for the general purposes of the Association during the life of the member; afterwards it is to be used to aid in original research. Life Members are exempt from the annual assessment, and are entitled to the annual volume. The names of Life Members are printed in small capitals in the regular list of Members and Fellows.

Alden, Jno., Pacific Mills, Lawrence, Mass. (36).
Aldis, Owen F., 230 Monadnock Block, Chicago, Ill. (41). **H**
Aldrich, Prof. William Sleeper, West Virginia Univ., Morgantown, W. Va. (43).
Allderdice, Wm. H., P. A. Engineer, U. S. Navy, care Navy Department, Washington, D. C. (33). **D**
Allen, J. M., Hartford, Conn. (22). **D**
Allen, Prof. Thomas G., Armour Inst., Chicago, Ill. (43). **C**
Allen, W. F., 24 Park Place, New York, N. Y. (36).
Allen, Walter S., New Bedford, Mass. (39). **C I**
Alpaugh, Edwin K., Huntington, Ind. (41). **E**
Andrews, E. R., Rochester, N. Y. (41).
Angell, Geo. W. J., 44 Hudson St., New York, N. Y. (36).
Appleby, Prof. William R.., Univ. of Minnesota, Minneapolis, Minn. (43). **D E**
Appleton, Rev. Edw. W., D.D., Ashbourne, Montgomery Co., Pa. (28).
Appleton, Prof. William H., Ph.D., Swarthmore College, Swarthmore, Pa. (43). **H E**
Archambault, U. E., P. O. Box 1944, Montreal, P. Q., Can. (31).
Archbold, Dr. George, 65 Prospect Place, E. 42nd St., New York, N. Y. (40).
Atkinson, Jno. B., Earlington, Hopkins Co., Ky. (26). **D**
Atwood, E. S., East Orange, N. J. (29). **F**
Avery, Robert Stanton, 320 A St., S. E., Washington, D. C. (40). **A**
Avery, Samuel P., 4 E. 38th St., New York, N. Y. (36).
Ayer, Edward Everett, Room 12, The Rookery, Chicago, Ill. (37). **H**
Ayres, Horace B., Allamuchy, N. J. (40).

Backus, Truman J., LL.D., Pres. Packer Inst , Brooklyn, N. Y. (43).
Bacon, Chas. A., Beloit, Wis. (36). **A**
Baker, Prof. Arthur Latham, 28 Strathallan Park, Rochester, N. Y. (41). **A B**
Baker, Charles S., Rochester, N. Y. (41). **C D**
Balch, Samuel W., Yonkers, N. Y. (43).
Balderston, C. Canby, Westtown, Chester Co., Pa. (33). **B**
Baldwin, Mrs. G. H., 3 Madison Ave., Detroit, Mich. (34). **H**
Baldwin, Herbert B., 215 Market St., Newark, N. J. (43).
Baldwin, Miss Mary A., 28 Fulton St , Newark, N. J. (31). **E H I**
Bancroft, Alonzo C., Elma, Erie Co., N. Y. (41).
Banes, Charles H., 1107 Market St., Philadelphia, Pa. (31). **D**
Bangs, Lemuel Bolton, M.D., 127 E. 34th St., New York, N. Y. (36).
Barclay, Robert, A.M., M.D., 3211 Lucas Ave., St. Louis, Mo. (30).
Barge, B. F., Mauch Chunk, Pa. (33).
Barker, Mrs. Martha M., 26 Eleventh St., Lowell, Mass. (31). **E H**
Barnard, Charles, 866 Carnegie Hall Studios, West 56th St., New York, N. Y. (43).
Barnes, David Leonard, A.M., Suite 1750, Monadnock Building, Chicago, Ill. (43). **D**

Barnhart, Arthur M., 185 Monroe St., Chicago, Ill. (42).
Barnum, Miss Charlotte C., 144 Humphrey St., New Haven, Conn. (36). **A**
Barrett, Fred. P., Gainesville, Wyoming Co., N. Y. (40). **E**
Barton, Prof. Samuel M., Kernstown, Va. (43).
Bascom, Miss Florence, Ohio State Univ., Columbus, Ohio (42). **E**
Baskerville, Charles, Univ. of North Carolina, Chapel Hill, N. C. (41). **C**
Bastin, Edson Sewell, The Philadelphia Coll. of Pharmacy, Philadelphia, Pa. (39).
Batterson, J. G., Hartford, Conn. (23).
Bausch, Henry, P. O. Drawer 1033, Rochester, N. Y. (41).
Baxter, James N., care H. E. and C. Baxter, cor. Division and Bedford Sts., Brooklyn, N. Y. (36).
Bay, J. Christian, Bacteriologist of the Iowa State Board of Health, Ames, Iowa (42). **G**
Baylies, Bradford L.B., M.D., 418 Putnam Ave., Brooklyn, N. Y. (43).
Beach, Spencer Ambrose, N. Y. Experiment Station, Geneva, N. Y. (41). **G**
Bean, Thos. E., Box 441, Galena, Ill. (28). **F**
Beaver, Daniel B. D., M.D., 150 North 6th St., Reading, Pa. (39).
Becher, Franklin A., 406 Irving Place, Milwaukee, Wis. (41). **I A**
Bell, Miss Clara, Springfield, Mass. (43).
Bell, C. M., M.D., 320 Fifth Ave., New York, N. Y. (36).
Benner, Henry, Chicago Manual Training School, Michigan Ave. and 12th St., Chicago, Ill. (40). **A**
Bennett, Henry C., 256 W. 42nd St., New York, N. Y. (43).
Benton, George W., High School, Indianapolis, Ind. (39). **C**
Berry, Daniel, M.D., Carmi, White Co., Ill. (41). **B C E**
Beveridge, David, Newburgh, N. Y. (33). **I**
Biddle, James G., 525 Drexel Building, Philadelphia, Pa. (39).
Bien, Julius, 140 Sixth Ave., New York, N. Y. (34). **E H**
Biggar, Hamilton F., M.D., 176 Euclid Ave., Cleveland, Ohio (40). **B H**
Birge, Prof. Edw. A., Univ. of Wis., Madison, Wis. (42). **F**
Biscoe, Prof. Thomas Dwight, 404 Front St., Marietta, Ohio (41). **G**
Bishop, Heber R., Mills Building, New York, N. Y. (36).
Blackmar, Abel E., 1074 Bergen St., Brooklyn, N. Y. (43).
Blair, Mrs. Eliza N., Manchester, N. H. (40).
Blair, Mrs. Helen Quinche, 94 E. Fourth St., Cincinnati, Ohio (40). **C**
Blake, Edwin Mortimer, 230 Washington Ave., Brooklyn, N. Y. (43).
Blatchford, Eliphalet W., 375 No. La Salle St., Chicago, Ill. (17). **F**
Bleile, Albert M., M.D., 342 S. Fourth St., Columbus, Ohio (37). **F**
Blish, W. G., Niles, Mich. (33). **B D**
Blount, Henry F., "The Oaks," Washington, D. C. (32). **I B**
Blount, Mrs. Lucia E., "The Oaks," Washington, D. C. (34). **H I**
Bogue, Rev. Horace P. V., Avon, N. Y. (41). **H I**
Booraem, J. V. V., 204 Lincoln Place, Brooklyn, N. Y. (36).
Borner, William, 113 Cass St., Chicago, Ill. (44).
Bourland, Addison M., M.D., Van Buren, Ark. (29). **C E F**

Bouton, Chas. L., M.S., 2909 Park Ave., St. Louis, Mo. (40). **A D**
Bowditch, Charles P., 27 State St., Boston, Mass. (43). **H**
Bowers, Miss Virginia K., 61 3d St., Newport, Ky. (27). **F H B C**
Bowker, R. R., 28 Elm St., New York, N. Y. (43). **B**
Boyer, Jerome L., Superintendent Chestnut Hill Iron Ore Co., Reading, Pa. (35). **D**
BRACKENRIDGE, GEO. W., San Antonio, Texas (41). **I**
Brackett, S. H., St. Johnsbury, Vt. (43).
BRADLEY, ARTHUR C., Newport, N. H. (43).
Bradley, Charles S., Avon, N. Y. (40).
BRADLEY, M. J., 36 Hart St., Brooklyn, N. Y. (43).
Bramwell, Geo. W., 145 Broadway, New York, N. Y. (43). **D**
Bray, Prof. C. D., College Hill, Mass. (29). **B D**
Brayton, Miss Sarah H., M.D., Evanston, Ill. (33).
Breckenridge, Prof. Lester P., Champaign, Ill. (41).
Breckinridge, J. C., Inspector General U. S. A , Inspector General's Office, War Dept., Washington, D. C. (40). **E**
Brewster, Mrs. Mary S., Mountainville, Orange Co., N. Y. (43).
Brice, Judge Albert G., 19 Camp St., New Orleans, La. (32). **H**
Briggs, Thomas B., 115 E. 73d St., New York, N. Y. (43).
Brigham, Prof. Albert P., Hamilton, Madison Co., N. Y. (41).
Britton, Wiley, Kansas City, Kansas (40). **F**
Bromwell, Wm., Museum of Hygiene, 1707 New York Ave., Washington, D. C. (40).
Brooks, Prof. Wm. P., Amherst, Mass. (38). **C F**
Brown, Henry A., Westport Point, Mass. (38). **I**
Brown, Jonathan, 390 Broadway, Somerville, Mass. (29).
Brown, R. G., Electrical Engineer, 158 Montague St., Brooklyn, N. Y. (43). **D**
Brown, Samuel B., Morgantown, W. Va. (40). **E**
Brownell, Prof. Walter A., 905 University Avenue, Syracuse, N. Y. (30). **E B C**
Brundage, Albert H., Ph.G., M.D., 1153 Gates Ave., Brooklyn, N. Y. (43). **F G H**
Brush, Geo. W., M.D., 2 Spencer Place, Brooklyn, N. Y. (43). **B H**
Bryant, Miss D. L., Greensboro, N. C. (42). **E**
Buckingham, Chas. L., 195 Broadway, New York, N. Y. (28).
Buffum, Prof. Burt C., State Univ., Laramie, Wyo. (42). **G**
Burnett, Edgar A., Agricultural College, Mich. (41).
Burr, Mrs. Laura E., Commercial Hotel, Lansing, Mich. (34). **B**
Burton, Prof. Alfred E., Mass. Inst. of Tech., Boston, Mass. (40). **E**
Burwell, Arthur W., Ph.D., 208 Superior St., Cleveland, Ohio (37).
Bush, Rev. Stephen, D.D., Waterford, N. Y. (19). **E H**

Calkins, Dr. Marshall, Springfield, Mass. (29).
Campbell, Jos. Addison, 5103 Main St., Germantown, Pa. (33).
Campbell, Wm. A., M.D., Ann Arbor, Mich. (34). **F B**

Cannon, George L., jr., High School, Denver, Col. (39). **F H**
Cardeza, John M., M.D., Claymont, Del. (33). **E**
Carpenter, Mrs. Benjamin, 50 Cedar St., Chicago, Ill. (41). **H**
Carpenter, Geo. O., Jr., care St. Louis Lead and Oil Co., St. Louis, Mo. (29).
CARTER, JAMES C., 277 Lexington Ave., New York, N. Y. (36).
Carter, James Madison G., M.D., Waukegan, Ill. (39). **F**
Carter, John E., Knox and Coulter Sts., Germantown, Pa. (33). **B H**
Carus, Paul, Ph.D., La Salle, Ill. (40). **H**
Cary, Albert A., 28 Cliff St., New York, N. Y. (36). **D**
Catlin, Charles A., 133 Hope St., Providence, R. I. (33). **C**
Chadbourn, Erlon R., Lewiston, Me. (29).
Chamberlain, Prof. Joseph R., Raleigh, N. C. (41). **F**
Chapman, Mrs. N. H., 160 Hicks St., Brooklyn, N. Y. (43).
Chase, Frederick L., Yale Univ. Observ., New Haven, Conn. (43).
Chase, R. Stuart, 53 Summer St., Haverhill, Mass. (18). **F**
Chester, Commander Colby M., U. S. N., U. S. Naval Academy, Annapolis, Md. (28). **E**
Christian, Ira W., Noblesville, Ind. (39).
Chrystie, Wm. F., Hastings-on-Hudson, New York, N. Y. (36).
Church, Royal Tyler, Turin, Lewis Co., N. Y. (38). **D F**
Clancy, Michael Albert, 1426 Corcoran St., Washington, D. C. (40). **H**
Clapp, Geo. H., 116 Water St., Pittsburg, Pa. (33). **H C**
Clark, Alex. S., Westfield, N. J. (33).
Clark, Edward, 417 Fourth St., Washington, D. C. (40).
Clark, Joseph E., M.D., 184 Clinton St., Brooklyn, N. Y. (43). **A E**
Clark, Oliver Durfee, 248 Schenck St., Brooklyn, N. Y. (41). **F E**
Clark, S. Wellman, M.D., 110 Mercer St., Jersey City, N. J. (44). **H**
Clark, Thomas H., 22 Lancaster St., Worcester, Mass. (40).
Clark, Tracy Earl, B.S., Pembroke, Genesee Co., N. Y. (41). **F**
Clark, Wm. Brewster, M.D., 50 E. 31st St., New York, N. Y. (33). **F C**
Clarke, Robert, Cincinnati, Ohio (30). **H**
Clarke, Sherman, 805 Wilder Building, Rochester, N. Y. (41). **C**
Cluett, J. W. Alfred, Troy, N. Y. (43).
Cochran, C. B., Food Inspector to State Board of Agric., 514 South High St., West Chester, Chester Co., Pa. (43). **C**
COE, HENRY W., M.D., Oregonian Building, Portland, Oregon (32). **H F**
Coffin, Amory, Phœnixville, Chester Co., Pa. (31). **D**
Coggin, Wm. Thos., M.D., M.A., Athens, Ga. (41). **C F**
Coit, J. Milner, Ph.D., Saint Paul's School, Concord, N. H. (33). **B C E**
Colgate, Abner W., 50 E. 34th St., New York, N. Y. (44).
Colie, Edw. M., East Orange, N. J. (30). **E I**
Collie, Prof. Geo. L., Beloit College, Beloit, Wis. (42). **E**
Collin, Rev. Henry P., Coldwater, Mich. (37). **F**
Collins, Prof. Jos. V., State Normal School, Stevens Point, Wis. (37). **A**
Collins, William H., Haverford College, Haverford, Pa. (41). **A**
Colton, Buel P., Normal, McLean Co., Ill. (34). **F**

Comstock, Dr. T. Griswold, 3401 Washington Ave., St. Louis, Mo. (29). **F H**
Conant, Miss E. Ida, 42 West 48th St., New York, N. Y. (33). **H I F**
Conklin, Prof. Roland E., A.M., Eureka College, Eureka, Ill. (42). **F**
Cook, Dr. Charles D., 133 Pacific St., Brooklyn, N. Y. (25).
Coon, Henry C., M.D., Alfred Centre, N. Y. (29). **B C F**
Cope, Thos. P., Awbury, Germantown, Pa. (33). **I**
Coquillett, Daniel William, Dep't of Agric., Washington, D. C. (43). **F**
Cowell, Jno. F., Buffalo, N. Y. (35).
Cox, Charles F., Pres. Council Scientific Alliance of New York, Grand Central Depot, New York, N. Y. (43).
Crafts, Robert H., 2329 So. 6th St., Minneapolis, Minn. (32). **I B**
Craig, John, Horticulturist, Experimental Farms, Ottawa, Ontario, Can. (41).
Craig, Oscar, Rochester, N. Y. (41). **I H**
Crawford, John, Leon, Nicaragua, C. A. (40). **E H**
Crehore, Mary L., care Wm. W. Crehore, Hackensack, N. J. (43). **B**
Crowell, A. F., Woods Holl, Mass. (30). **C**
Cruikshank, James, LL.D., 206 So. Oxford St., Brooklyn, N. Y. (36).
Crump, M. H., Col. Commanding 3d Reg. K. S. G., Bowling Green, Ky. (29). **E**
Crump, Shelley G., Pittsford, N. Y. (41). **F**
Cummins, W. F., Dallas, Texas (37). **E**
Cunningham, Francis A., 1613 Wallace St., Philadelphia, Pa. (33). **D E B**
Cunningham, Prof. Susan J., Swarthmore College, Swarthmore, Pa. (38). **A**
Cuntz, Johannes H., 325 Hudson St., Hoboken, N. J. (36).
Curtis, Edw., M.D., 120 Broadway, New York, N. Y. (36).
Curtis, William E., Bureau of American Republics, State Department, Washington, D. C. (40). **H I**
Curtman, Dr. Charles O., 3718 North 9th St., St. Louis, Mo. (39). **C**
Cutler, Dr. Andrew S., Kankakee, Ill. (32). **I E**

Dains, Frank Burnett, Wesleyan Univ., Middletown, Conn. (41). **C**
Daly, Hon. Charles P., 84 Clinton Place, New York, N. Y. (36).
Dana, James Jackson, Lt. Col. and Brevet Brig. Gen. U. S. Army, "Cosmos Club," 1520 H St., N. W., Washington, D. C. (40).
Daniells, Prof. William W., Univ. of Wis., Madison, Wis. (42). **C**
Davenport, Prof. Eugene, Dean of the Coll. of Agric., Univ. of Ill., Champaign, Ill. (39).
Davidson, R. J., Experiment Station, Blacksburgh, Va. (40). **C**
Davis, Abial B., A.M., 129 East Lincoln Ave., Mt. Vernon, N. Y. (44). **A**
Davis, C. H., Commander U. S. Navy, Chief Intelligence Officer, Navy Department, Washington, D. C. (40).
Davis, Prof. Floyd, Pres. New Mexico School of Mines, Socorro, N. M. (39). **C E**
Davis, G. C., Agricultural College, Mich. (43).

Davis, J. C. Bancroft, 1621 H St., N. W., Washington, D. C. (40).
Davis, J. J., M.D., 1119 College Ave., Racine, Wis. (31). **F G**
Davison, John M., 60 Oxford St., Rochester, N. Y. (38). **C**
Dawson, Geo. M., D.S.C., F.G.S., Geol. Surv., Ottawa, Ontario, Can. (38).
Dean, Seth, Glenwood, Iowa (34). **D**
DeCourcy, Bolton Waller, 911 North 10th St., Tacoma, Washington (41). **I D**
DeForest, Henry S., Pres. Talladega College, Talladega, Alabama (32). **H I**
Deghuée, Joseph A., 247 Harrison St., Brooklyn, N. Y. (40). **C**
Delafield, Maturin L., jr., Fieldston, Riverdale, New York, N. Y. (43).
Dennis, Louis Munroe, Cornell Univ., Ithaca, N. Y. (43). **C**
Densmore, Prof. H. D., Beloit, Wis. (41). **G**
Dewart, Frederick W., Missouri Botanical Garden, St. Louis, Mo. (41). **F**
Dewey, L. H., Dept. of Agric., Washington, D. C. (40). **F**
Dexter, Julius, Cincinnati, Ohio (30).
Dinsmore, Prof. Thos. H., jr., Emporia, Kan. (29). **B C**
Dittenhoefer, A. J., 96 Broadway, New York, N. Y. (36).
DIXWELL, EPES S., Cambridge, Mass. (1). **H F**
Dodge, Chas. Wright, M.S., Univ. of Rochester, Rochester, N.Y. (39). **F**
Dodge, Melvin Gilbert, Hamilton College, Clinton, N. Y. (42). **C**
Dodge, Philip T., Tribune Building, New York, N. Y. (44). **B D**
Dodge, Wm. C., 116 B St., N. E., Washington, D. C. (40). **H**
Doty, P. A., 211 Park Ave., Paterson, N. J. (43). **D**
Doubleday, H. H., 715 H St., N.W., Washington, D. C. (40). **H**
Doughty, John W., 165 Johnston St., Newburgh, N. Y. (19). **E**
Douglas, Miss Alice A., 194 Madison St., Brooklyn, N. Y. (43).
Dow, Frank F., M.D., 60 South Ave., Rochester, N. Y. (41). **F H**
Dow, Mrs. Frederick C., North Elm St., Manchester, N. H. (42). **E F G H**
Dowling, Thomas, jr., 614 E St., N. W., Washington, D. C. (40). **H**
Drescher, Willibald A. E., P. O. Drawer 1033, Rochester, N. Y. (41). **F**
Drummond, Isaac Wyman, Ph.D., 436 W. 22nd St., New York, N.Y. (36).
Dryer, Chas. R., Fort Wayne, Ind. (38). **E**
Dudek, Miss Katie M., 54 W. 55th St., New York, N. Y. (36). **E**
Duffy, Rev. James S., 474 Sackett St., Brooklyn, N. Y. (43).
Dulaney, Judge William L., Bowling Green, Ky. (39).
DuPont, Francis G., Wilmington, Del. (33). **A B D**
Durand, Elias J., Canandaigua, N. Y. (41). **F**
Durfee, W. F., Birdsboro, Berks Co., Pa. (33). **D C B A E I**
Dyar, Harrison G., 76 W. 69th St., New York, N. Y. (43).
Dyer, Clarence M., Lawrence, Mass. (22).

Earle, F. S., Ocean Springs, Miss. (39). **G**
Eastman, Charles Rochester, Mus. Comp. Zoology, Cambridge, Mass. (41). **E**
Edelheim, Carl, 253–259 N. Broad St., Philadelphia, Pa. (33).
Edson, Hubert, Ass't Chemist Dept. of Agric., Washington, D. C. (40).

Edwards, J. W., P. O. Box 282, Rico, Col. (32).
Edwards, W. F., 48 E. Univ. Ave., Ann Arbor, Mich. (33). **B C**
Eichelberger, William Snyder, Ph.D., Wesleyan Univ., Middletown, Conn. (41). **A**
Ekeley, Prof. John B., The Cathedral School of Saint Paul, Garden City, L. I. (42). **C**
Elmer, Howard N., St. Paul, Minn. (32). **D I**
Emery, Frank E., No. Caro. Experiment Station, Agric. and Mechan. Coll., Raleigh, N. C. (38). **F**
Emmens, Stephen H., Youngwood, Westmoreland Co., Pa. (41).
English, Geo. L., 733 Broadway, New York, N. Y. (36).
ESTES, DANA, Brookline, Mass. (29). **I**
Estes, Ludovic, Grand Forks, No. Dakota (41). **B**
Evans, Samuel G., 211 Main St., Evansville, Ind. (39). **F**
Evers, Edw., M. D., 1861 North Market St., St. Louis, Mo. (28). **F H**
Ewell, Ervin E., Dept. of Agric., Chem. Div., Washington, D. C. (40). **C**
Ewell, Marshall D., M.D., Rooms 613 and 614, Ashland Block, 59 Clark St., Chicago, Ill. (40).

Fairchild, Gen. Lucius, 302 Monroe St., Madison, Wis. (42). **I**
Fairfield, W. B., U. S. C. and G. Survey, Washington, D. C. (40). **E**
Falconer, Wm., Glen Cove, Queens Co., N. Y. (29).
Farnsworth, P. J., M.D., Clinton, Iowa (32). **E H**
Fernald, F. A., 72 Fifth Ave. New York, N. Y. (43).
Ferry, Ervin S., 253 S. 9th Ave., Mount Vernon, N. Y. (41).
Fischer, E. G., U. S. Coast and Geodetic Survey, Washington, D. C. (40). **A**
Fisher, Miss Ellen F., Lake Erie Seminary, Painesville, Ohio (33). **B A**
Fisher, Geo. E., 37 and 39 Wall St., New York, N. Y. (37).
Flanders, Charles S., Franklin, Mass. (42). **E**
Fletcher, C. R., 82 Equitable Building, Boston, Mass. (29). **C E**
Foltz, Kent O., M.D., Akron, Ohio (36).
Forwood, Dr. W. H., Soldiers' Home, Washington, D. C. (40).
Foster, Prof. Eugene H., Shattuck School, Faribault, Minn. (39).
Freeman, Prof. T. J. A., Woodstock Coll., Howard Co., Md. (33). **B C**
Frick, Prof. John H., Central Wesleyan College, Warrenton, Mo. (27). **E F B A**
Fries, Dr. Harold H., 92 Reade St., New York, N. Y. (43). **C**
Frisbie, J. F., M.D., Box 455, Newton, Mass. (29). **E H**
Frost, Howard V., Ph.D., Arlington, Mass. (38). **C**
FROTHINGHAM, MRS. LOIS R., Milton, Mass. (31). **F A I**
Fuller, Chas. G., M.D., Room 39, Central Music Hall, Chicago, Ill. (35). **F**
Fuller, Levi K., Brattleboro, Vt. (34). **D A**
Fuller, Melville W., LL.D., Chief Justice U. S., 1800 Mass. Ave., Washington, D. C. (40).

Gable, George D., Ph.D., Lafayette College, Easton, Pa. (40). **A B**
Gardner, Rev. Corliss B., 8 New York St., Rochester, N. Y. (29). **A B I**

GARLAND, JAMES, 2 Wall St., New York, N. Y. (36).
Garman, Harrison, Lexington, Ky. (38).
Garnett, Algernon S., M.D., Hot Springs, Ark. (23).
Garnier, Madame Laure Russell, 116 W. 59th St., New York, N. Y. (40).
Gates, Nelson J., 1141 Dean St., Brooklyn, N. Y. (43).
Gault, Franklin B., Univ. of Idaho, Moscow, Idaho (43).
Gause, Frederick T., care Stevens Inst. of Tech., Hoboken, N. J. (40).
GENTH, FRED. A., Lansdowne, Del. Co., Pa. (32). **C E**
Genung, Nelson H., Ardmore, Pa. (40). **B**
Georgeson, Charles C., M.Sc., Manhattan, Kan. (42). **I**
Ghequier, A. de, P. O. Box 565, Washington, D. C. (30). **I**
Gibbons, John T., M.D., U. S. N., 1297 Bushwick Ave., Brooklyn, N. Y. (43). **E**
Giddings, Frederick S., Madison, Wis. (42). **I**
Gilson, George Fredom, Pleasanton, Alameda Co., Cal. (41). **H**
GLENNY, WILLIAM H., JR., Buffalo, N. Y. (25).
Golden, Miss Katherine E., La Fayette, Ind. (42). **G**
Goler, George W., M.D., 54 So. Fitzhugh St., Rochester, N. Y. (41). **F**
Goodnow, Henry R., 95 Riverside Drive, New York, N. Y. (32). **B**
Goodridge, E. A., M.D., 85 Maine St., Flushing, N. Y. (36).
Goodyear, William H., 222 E. 69th St., New York, N. Y. (43).
Goss, Prof. Wm. F. M., La Fayette, Ind. (39).
Gottlieb, J. Adelphi, A.M., M.D., Sc.D., 304 W. 104th St., New York, N. Y. (43). **C E F G H I**
Gould, Sylvester C., Manchester, N. H. (22). **A B E H**
Graef, Edw. L., 58 Court St., Brooklyn, N. Y. (28). **F**
Graf, Louis, Van Buren, Crawford Co., Ark. (30). **E F H**
Grant, H. L., 206 Moss Ave., Peoria, Ill. (39). **C**
Green, Edgar Moore, M.D., Easton, Pa. (36).
Green, Milbrey, M.D., 567 Columbus Ave., Boston, Mass. (29).
Greene, Charles W., M.D., Merchantville, N. J. (41). **E G H**
Greene, Prof. Edward Lee, Univ. of Cal., Berkeley, Cal. (42). **G**
Greene, G. K., 195 West 1st St., New Albany, Ind. (38).
Greene, Jacob L., Pres. Mut. Life Ins. Co., Hartford, Conn. (23).
Greene, Jeannette B., M.D., Sci.D., F.E.C., 56 W. 55th St., New York, N. Y. (33). **F E C**
Greenleaf, John T., Owego, N. Y. (33). **F**
Greenleaf, R. P., M.D., 803 Market St., Wilmington, Del. (31). **B F**
Gregory, Emily L., 343 Madison Ave., New York, N. Y. (41).
Greve, Theodor L. A., M.D., 260 W. 8th St., Cincinnati, Ohio (30).
Griscom, Wm. W., Haverford College P. O., Pa. (33). **B C D**
Grower, George G., Ansonia, Conn. (43). **B D**
Gudeman, Edward, Ph.D., care Amer. Glucose Co., Buffalo, N. Y. (40). **C**
Gulliver, F. P., Norwich, Conn. (40). **E**
Gunckel, Lewis W., 121 West Second St., Dayton, Ohio (41). **H**
Gurley, Wm. F. E., Danville, Vermilion Co., Ill. (37). **E**

Hacker, William, General Offices, Penn. R. R. Co., Philadelphia, Pa. (33). **F E**
Hagemann, John, 125 Rusk St., Houston, Texas (29). **C**
Hager, Stansbury T., 372 Washington Ave., Brooklyn, N. Y. (43).
Haight, Stephen S., C.E., 1266 Clover St., West Farms, New York, N. Y. (31). **D**
Hale, George D., 5 Gibbs St., Rochester, N. Y. (41).
Haliburton, R. G., Q.C., 99 State St., Boston, Mass. (43). **H**
Hall, Arthur G., 63½ S. Division St., Ann Arbor, Mich. (41). **A B**
Hall, James P., 6 Poplar St., Brooklyn, N. Y. (40). **A B**
Hall, Winfield S., M.D., Haverford, Pa. (40).
Hallock, Albert P., Ph.D., 440 First Ave., New York, N. Y. (31). **C**
Halstead, D. B., 335 Washington Ave., Brooklyn, N. Y. (43).
Halsted, Prof. George Bruce, Austin, Texas (43).
Hammon, W. H., Forecast Official, Weather Bureau, San Francisco, Cal. (37). **B**
Hammond, Geo. W., "The Hamilton," 260 Clarendon St., Boston, Mass. (28). **C D**
Hammond, Mrs. Geo. W., "The Hamilton," 260 Clarendon St., Boston, Mass. (29). **H**
Harmon, Miss A. Maria, 189 Maclaren St., Ottawa, Ontario, Canada (31). **H F**
Harper, Prof. Charles A., Univ. of Cincinnati, Cincinnati, Ohio (40). **C**
Harrington, Prof. Mark W., Chief of Weather Bureau, Washington, D. C. (40). **B**
Harris, Abram Winegardner, ScD., Pres. Maine State College, Orono, Me. (40).
Harris, Prof. Elmo G., Missouri School of Mines, Rolla, Mo. (43).
Harris, I. H., Waynesville, Warren Co., Ohio (30). **E H**
Harris, James Robert (41). **C**
Harris, Mrs. Robert, Buckingham Hotel, New York, N. Y. (36).
Harrison, Caleb N., 1010 N. Arlington Ave., Baltimore, Md. (42). **A B**
Harrison, Miss Carrie, 1413 N St., N. W., Washington, D. C. (42). **G**
Harrison, Edwin, 520 Olive St., Room 620, St. Louis, Mo. (11). **E**
Hart, C. Porter, M.D., Wyoming, Hamilton Co., Ohio (30). **F**
Hart, Rev. Prof. Samuel, Trinity College, Hartford, Conn. (22). **A**
Hartz, J. D. Aug., College Point, N. Y. (43).
Harvey, A. F., Kirkwood, Mo. (40).
Haskell, Eugene E., U. S. Engineer Office, Sault Ste. Marie, Mich. (39). **A B D**
Hathaway, Nath'l, New Bedford, Mass. (30). **C**
Haven, Franklin, jr., New England Trust Co., Boston, Mass. (29).
Hayes, Charles Willard, U. S. Geol. Survey, Washington, D. C. (41). **E**
Hayes, Richard, 610 Olive St., St. Louis, Mo. (27). **A B**
Haywood, Prof. John, Otterbein Univ., Westerville, Ohio (30). **A B**
Head, W. R., 5467 Jefferson Ave., Hyde Park, Chicago, Ill. (38). **E**
Hedge, Fred. H., Public Library, Lawrence, Mass. (28). **F H**

Hedrick, Henry B., A.B., Nautical Almanac Office, Washington, D. C. (40).
Henderson, Mrs. Alice Palmer, 2301 Clinton Ave., Minneapolis, Minn. (42). **H**
Henderson, C. Hanford, Manual Training School, Philadelphia, Pa. (33). **E C B**
Hendricks, Henry H., 49 Cliff St., New York, N. Y. (30).
Henry, Chas. C., M.D., 56 Clark St., Brooklyn, N. Y. (43).
Hershey, Oscar H., Galena, Stone Co., Mo. (42). **E**
Hertzberg, Prof. Constantine, 181 S. Oxford St., Brooklyn, N. Y. (29). **B F**
Herty, Chas. Holmes, Ph.D., Univ. of Georgia, Athens, Ga. (42).
HEXAMER, C. JOHN, C.E., 419 Walnut St., Philadelphia, Pa. (33). **C B**
Heyer, Wm. D., 101 Pearl St., Elizabeth, N. J. (33). **B D**
Hice, Richard R., Beaver, Beaver Co., Pa. (41). **E**
Hicks, Geo. E., Great Neck, Long Island, N. Y. (36).
Hicks, Gilbert H., 2221 15th St., N. W., Washington, D. C. (43).
Higbee, H. H., Johns Hopkins Univ., Baltimore, Md. (43).
Higley, Warren, 120 Broadway, New York, N. Y. (43).
Hill, David J., Pres. Univ. of Rochester, Rochester, N. Y. (41). **H I**
Hillyer, Homer W., Ph.D., Univ. of Wis., Madison, Wis. (42). **C**
Hinton, John H., M.D., 41 West 32nd St., New York, N. Y. (29). **F H**
Hitchcock, Miss Fannie R. M., 300 William St., E. Orange, N. J. (35). **F**
Hoadley, Geo. A., A.M., Swarthmore College, Swarthmore, Pa. (40).
Hobbs, Prof. Perry L., Western Reserve Medical College, Cleveland, Ohio (41). **C**
Hodge, J. M., Big Stone Gap, Va. (29). **D E**
Hodges, Julia, 139 W. 41st St., New York, N. Y. (36). **E F H**
Hodgkins, Prof. H. L., Columbian University, Washington, D. C. (40). **A B**
HOE, MRS. R., JR., 11 E. 36th St., New York, N. Y. (36).
Hoe, Mrs. Richard M., 1 E. 69th St., New York, N. Y. (36).
Hoeltge, Dr. A., 322 Lime St., Cincinnati, Ohio (30).
Hoffman, The Rev. Eugene Aug., D.D., Dean of Gen. Theol. Seminary, 426 W. 23d St., New York, N. Y. (36).
Holden, E. F., 530 W. Onondaga St., Syracuse, N. Y. (43). **A**.
Holden, L. E., The Hollenden, Cleveland, Ohio (32).
HOLDEN, MRS. L. E., The Hollenden, Cleveland, Ohio (35).
Holden, Perry G., Agricultural College, Michigan (41).
Holland, Rev. W. J., D.D., Ph.D., Pittsburg, Pa. (37). **F**
Holley, George W., Ithaca, N. Y. (19). **B I**
Hollingsworth, Jno. E., Austin, Texas (40).
Hollinshead, William H., Vanderbilt Univ., Nashville, Tenn. (37).
Holmes, W. Newton, Pritchett School Inst., Glasgow, Mo. (36).
Holstein, Geo. Wolf, Albany, Shackelford Co., Texas (28). **E H**
Holt, Henry, 29 West 23d St., New York, N. Y. (29).
Homburg, Frederick, 40 Clifton Ave., Cincinnati, Ohio (39). **C**
Homer, Chas. S., jr., of Valentine & Co., 245 Broadway, New York, N. Y., (29).

Hood, E. Lyman, Albuquerque, N. M. (30). F I
Hood, Gilbert E., Lawrence, Mass. (29). H E B
Hood, William, 512 Van Ness Ave., San Francisco, Cal. (35). D
Hooper, Dr. F. H., 460 County, cor. William St., New Bedford, Mass. (29).
Hooper, Prof. Franklin W., Curator Brooklyn Inst., Brooklyn, N. Y. (43).
Hooper, Josephus, M.D., Louisville, Ky. (39).
Hopkins, A. D., Exper. Station, Morgantown, W. Va. (42). F
Hopkins, Grant S., Ithaca, N. Y. (41). F
Hopkins, Thos. C., care Geol. Survey, Indianapolis, Ind. (38). E
Horr, Asa, M.D., 1311 Main St., Dubuque, Iowa (21). B E
Horsford, Miss Cornelia, 27 Craigie St., Cambridge, Mass. (43). H
Hoskins, William, La Grange, Cook Co., Ill. (34). C
Hough, Romeyn B., Lowville, N. Y. (37).
Hovey, Edmund O., Amer. Mus. Nat. History, New York, N. Y. (36). C E
Hoyt, James T., Temple Court, Beekman St., New York, N. Y. (38). A H
Hubbard, Bela, Detroit, Mich. (1). E H
Hubbard, George W., M.D., Nashville, Tenn. (26). F
Hubbard, Henry Guernsey, 114 Griswold St., Detroit, Mich. (41).
Hudson, George H., Plattsburgh, Clinton Co., N. Y. (31). F
Hugo, T. W., Duluth, Minn. (33). D
Hume, Alfred, C. E., University, Miss. (39). A
Humphrey, Daniel, M.D., Lawrence, Mass. (18). F H
Hungerford, W. S., care W. Ames & Co., Jersey City, N. J. (43). D
Hunt, J. H., M.D., 1085 Bedford Ave., Brooklyn, N. Y. (43).
Hunt, Richard M., Metropolitan Building, 1 Madison Ave., New York, N. Y. (36).
Hunt, Miss Sarah E., Salem, Mass. (20).
Hunter, Andrew Frederick, Barrie, Ontario, Can. (38). B H I
Huntington, Elon, 762 N. St. Paul St., Rochester, N. Y. (41). B E
Hurd, E. O., Plainville, Hamilton Co., Ohio (30). E F
Hutchinson, Wm. M., M.D., 207 Clinton St., Brooklyn, N. Y. (40). C B
Hyde, B. T. B., 20 W. 53d St., New York, N. Y, (43). D
Hyde, E. Francis, 522 Fifth Ave., New York, N. Y. (43). A
Hyde, Frederick E., M.D., 20 W. 53d St., New York, N. Y. (43). E
Hyde, Frederick E., jr., 20 W. 53d St., New York, N. Y. (43). H

Iles, George, 7 Brunswick St., Montreal, Can. (31). I
Ingalls, Jas. M., Capt. 1st Art'y, U. S. A., Fortress Monroe, Va. (35).
Ingham, Wm. A., 820 Walnut St., Philadelphia, Pa. (33). E I
Ives, James T. B., Philadelphia, Pa. (43). E

Jackson, Prof. Charles L., Harvard Univ., Cambridge, Mass. (44). C
James, Bushrod W., M.D., N. E. cor. 18th and Green Sts., Philadelphia, Pa. (29). F
James, Darwin R., 226 Gates Ave., Brooklyn, N. Y. (43).
James, Mrs. Darwin R., 226 Gates Ave., Brooklyn, N. Y. (43).

James, Davis L., 131 West 7th St., Cincinnati, Ohio (30). **F**
Jefferis, Wm. W., 1836 Green St., Philadelphia, Pa. (33). **E**
Jenks, Wm. H., Brookville, Pa. (38).
Jenuer, Charles H., Prof. of Natural and Applied Sciences, Brockport, N. Y. (41). **A B D**
Jennings, Mrs. N. B., 140 Plymouth Ave., Rochester, N. Y. (41).
Jesunofsky, Lewis N., U. S. Weather Bureau, Charleston, S. C. (36). **B**
Jewett, Dr. Frederic A., 282 Hancock St., Brooklyn, N. Y. (43).
Johnson, Henry Clark, 27 and 29 Pine St., New York, N. Y. (42). **I**
Johnson, Dr. Henry L. E., 1400 L St., N. W., Washington, D. C. (40). **F**
Johnson, Lorenzo N., 47 South University Avenue, Ann Arbor, Mich. (39). **F**
Johnson, Nels, Manistee, Mich. (41). **A B**
Jones, Prof. Forrest R., Univ. of Wisconsin, Madison, Wis. (42). **D**
Jones, Paul M., D.Sc., Nashville, Tenn. (40). **E F**

Karslake, William J., Le Roy, Genesee Co., N. Y. (41).
Kedzie, John H., Evanston, Ill. (34). **B**
Keep, Wm. J., Detroit, Mich. (37).
Kelley, Henry S., 208 Wooster St., New Haven, Conn. (36). **D C**
Kellogg, David S., M.D., Plattsburgh, N. Y. (29). **H**
Kellogg, John H., M.D., Battle Creek, Mich. (24). **F**
Kennedy, Dr. George Golding, Roxbury, Mass. (40). **F**
Kennedy, Harris, 284 Warren St., Roxbury, Mass. (40). **E F**
Kern, Josiah Quincy, Ph.D., P. O. Box 265, Treasury Dept., Washington, D. C. (40). **I**
Kinder, Miss Sarah A., 28 Lockerbie St., Indianapolis, Ind. (39).
King, A. F. A., M.D., 1315 Mass. Ave., N. W., Washington, D. C. (29). **F H**
King, Miss Ada M., 8 Briggs Place, Rochester, N. Y. (39). **E I**
King, Miss Harriet M., Salem, Mass. (28).
Kingsbury, Prof. Albert, Durham, N. H. (43). **D**
Kinner, Hugo, M.D., 1517 South Seventh St., St. Louis, Mo. (21). **F H**
Kirkpatrick, Walter G., 2102 West End Ave., Nashville, Tenn. (41).
Kittredge, Miss H. A., North Andover, Mass. (37). **F**
Klie, G. H. Carl, 5100 No. Broadway, St. Louis, Mo. (39). **C F**
Kneeland, Stillman F., LL.D., 110 Berkeley Pl., Brooklyn, N. Y. (43). **I**
Knight, Albert B., P. O. Box 211, Butte City, Silver Bow Co., Montana (36). **D**
Knight, Chas. H., M.D., 20 W. 31st St., New York, N. Y. (36).
Knight, Prof. Charles M., 219 So. Union St., Akron, Ohio (29). **C B**
Knox, Wilm, care C. O. Child, Painesville, Ohio (38).
Kober, Geo. Martin, M.D., 1819 Q St., N. W., Washington, D. C. (40). **H**
Kohler, Elmer P., Ph.D., Egypt, Lehigh Co., Pa. (41). **C**
Koons, B. F., Storrs, Conn. (43).
Kost, John, LL.D., Adrian, Mich. (34). **E**
Koues, Miss Elizabeth L., 10 E. 75th St., New York, N. Y. (41). **I**

Krécsy, Prof. Béla, Györ, Hungary (41). **C**
Krug, Wm. H., Ass't Chem. Dept. of Agric., Washington, D. C. (40).
Kuhne, F. W., 19 Court St., Fort Wayne, Ind. (38). **A F**

Ladd, G. E., Bradford, Mass. (39). **E**
La Forge, Lawrence, Alfred, N. Y. (43).
Lambert, Preston A., 422 Walnut St., South Bethlehem, Pa. (41). **A**
Lampard, Henry, 102 Shuter St., Montreal, Can. (40). **C D E**
LANDERO, CARLOS F. DE, Ass't Director, Pachuca and Real del Monte Mining Co., Pachuca, Mexico (36). **C B**
Langenbeck, Karl, 27 Orchard St., Zanesville, Ohio (39). **C**
Lang, Prof. Henry R., Yale Univ., New Haven, Conn. (41). **H**
Langmann, Gustav, M.D., 115 W. 57th St., New York, N. Y. (36).
Lasché, Alfred, 688 W. Chicago Ave., Chicago, Ill. (39). **C F G**
Latham, Miss Vida Annette, D.D.S., F.R.M.S., Northwest Univ., Woman's Medical School, 333 S. Lincoln St., Chicago, Ill. (39).
Latham, Woodville, 32 E. 21st St., New York, N. Y. (43).
Latta, Prof. William C., La Fayette, Ind. (37).
Lawrance, J. P. S., Past Ass't Engineer, U. S. N., Navy Yard, Norfolk, Va. (35). **D**
Laws, Miss Annie, 100 Dayton St., Cincinnati, Ohio (30). **I**
Ledyard, T. D., 57 Colborne St., Room 3, Toronto, Ontario, Can. (38).
Lee, Mrs. William, 1382 Beacon St., Boston, Mass. (36).
Leeds, James S., 109 Produce Exchange, New York, N. Y. (41).
Leete, James M., M.D., 2912 Washington Ave., St. Louis, Mo. (27).
Leiter, L. Z., 81 South Clark St., Chicago, Ill. (40).
Lemp, William J., cor. Cherokee and 2nd Carondelet Avenue, St. Louis, Mo. (27).
Leoser, Charles McK., 34 Beaver St., New York, N. Y. (32). **A**
Leslie, Geo. L., Prin. High School, Rock Island, Ill. (40).
Letchworth, Josiah, Buffalo, N. Y. (25).
Lewis, John E., Ansonia, Conn. (40). **A B E**
Lewis, Wm. J., M.D., 145 W. 43d St., New York, N. Y. (33). **F E**
Lincoln, Prof. David F., M.D., 18 Sidney Place, Brooklyn, N. Y. (41).
Lincoln, Nathan S., M.D., 1514 H St., N.W., Washington, D. C. (40).
Lindenkohl, Adolphus, U. S. Coast and Geodetic Survey, Washington, D. C. (40). **E**
Lindsay, Alexander M., Rochester, N. Y. (41).
Lindsay, Prof. Wm. B., Dickinson College, Carlisle, Pa. (41). **C**
Line, J. Edw., D.D.S., 50 Rowley St., Rochester, N. Y. (39). **F**
Linebarger, Charles E. (41).
Livermore, Mrs. M. A. C., 24 North Avenue, Cambridge, Mass. (29). **F**
Livermore, Wm. R., Maj. of Eng., U. S. A., P. O. Building, Boston, Mass. (38). **C**
Locke, James, Buffalo, N. Y. (41). **C**
Loeser, Gustav, 484 Fulton St., Brooklyn, N. Y. (43).
Loewy, Benno, 206 and 208 Broadway, New York, N. Y. (41).

Logan, F. G., 2919 Prairie Ave., Chicago, Ill. (42). **H**
Logan, Walter S., 58 William St., New York, N. Y. (36).
Lomb, Adolph, P. O. Drawer 1033, Rochester, N. Y. (41).
Lomb, Carl F., 543 No. St. Paul St., Rochester, N. Y. (29).
Lomb, Henry, P. O. Drawer 1033, Rochester, N. Y. (41).
Lomb, Henry C., P. O. Drawer 1033, Rochester, N. Y. (43).
Long, Prof. John H., 40 Dearborn St., Chicago, Ill. (41).
Lonsdale, Elston H., Ass't Missouri Geol. Survey, Jefferson City, Mo. (41). **E**
Loomis, Prof. Horatio, 43 Williams St., Burlington, Vt. (31).
Lord, Benjamin, 34 W. 28th St., New York, N. Y. (36).
Lovejoy, Frederick W., 348 Hancock St., Brooklyn, N. Y. (43).
Low, A. A., Columbia Heights, Brooklyn, N. Y. (43). **A**
Lowell, Aug., 60 State St., Boston, Mass. (29).
Lowell, Percival, 53 State St., Boston, Mass. (36). **A**
Lowman, John H., M.D., 345 Prospect St., Cleveland, Ohio (37).
Ludlow, Wm., Lt. Col. U. S. A., care War Dep't, Washington, D. C. (33). **D B**
Lufkin, Albert, Newton, Iowa (31). **D B**
Lull, Richard S., Amherst, Mass. (43). **F H**
Lyford, Edwin F., Springfield, Mass. (33). **B C H**
LYMAN, BENJ. SMITH, 708 Locust St., Philadelphia, Pa. (15). **E**
Lyman, Henry H., 74 McTavish St., Montreal, P. Q., Can. (29). **F E I**
Lyon, Edmund, 110 So. Fitzhugh St., Rochester, N. Y. (41).

MacArthur, Charles L., Troy, N. Y. (39).
McCammon, Gen. Joseph K., 1420 F St., Washington, D. C. (40).
McCarthy, Gerald, N. C. Agric. Exper. Station, Raleigh, N. C. (41).
McCartney, Dr. James H., 138 East Main St., Rochester, N. Y. (41). **B**
McClintock, A. H., Wilkes Barre, Pa. (33). **H**
McClintock, Emory, Morristown, N. J. (43).
McClintock, Frank, La Grange, Ill. (43). **A B D**
McCormick, L. M., Curator Glen Island Mus. Nat. Hist., Glen Island, N. Y. (43).
McCulloch, Champe Carter, jr., Ph.D., M.D., Fort Ringgold, Texas (39). **E**
McCurdy, Chas. W., Sc.D., Prof. of Chem., Univ. of Idaho, Moscow, Idaho (35). **F E**
McFadden, Prof. L. H., Westerville, Ohio (32). **B C**
McFarland, Robert W., LL.D., Oxford, Ohio (33). **A**
McGee, Miss Emma R., Farley, Iowa (33). **H**
McGiffert, James, 169 8th St., Troy, N. Y. (44). **A**
McGregory, A. C., Hamilton, N. Y. (43).
McHenry, Prof. B. F., Union Christian College, Merom, Ind. (39). **A E**
McLean, T. C., Lieut. U. S. N., New Hartford, Oneida Co., N. Y. (33).
McMillan, Smith B., Signal, Columbiana Co., Ohio (37).
McMillin, Emerson, 40 Wall St., New York, N. Y. (37).

McWhorter, Tyler, Aledo, Ill. (20). **E**
McWilliams, D. W., 39 So. Portland Ave., Brooklyn, N. Y. (43).
Macdougall, Alan, 30 East Adelaide St., Toronto, Ontario, Can. (38). **D H**
Macfarlane, Dr. John M., Lansdowne, Del. Co., Pa. (41). **F**
Magruder, Wm. T., Vanderbilt Univ., Nashville, Tenn. (37).
Mallinckrodt, Edw., P. O. Sub-station A, St. Louis, Mo. (29). **C**
Malone, Rev. Sylvester, 69 So. 3d St., Brooklyn, N. Y. (43).
Mann, Abram S., Rochester, N. Y. (39). **E**
Mann, Albert, Ph.D., care Mrs. Helen Mann, 483 1st St., Brooklyn, N. Y. (43). **F G**
Manning, Charles H., U. S. N., Manchester, N. H. (35). **D**
Manning, Miss Sara M., Lake City, Minn. (33). **F**
Manning, Warren H., Brookline, Mass. (31). **F H E**
Mapes, Charles Victor, 60 W. 40th St., New York, N. Y. (37). **C**
MARBLE, MANTON, 532 Fifth Ave., New York, N. Y. (36).
Marble, J. Russel, Worcester, Mass. (31). **C E**
Marble, Miss Sarah, Woonsocket, R. I. (29). **C**
Marbut, Curtis Fletcher, Ass't Missouri Geol. Survey, Jefferson City, Mo. (41). **E**
Marindin, Henry Louis, U. S. Coast and Geodetic Survey, Washington, D. C. (40). **E**
Markley, Joseph L., Ph.D., 50 Thompson St., Ann Arbor, Mich. (40).
Marlatt, Charles L., 1st Asst. Entomologist, Dept. of Agric., Washington, D. C. (40). **F**
Marmion, William Vincent, M.D., 1108 F St., N.W., Washington, D. C. (40).
Marple, Charles A., 717 W. Chestnut St., Louisville, Ky. (39). **B**
Marsden, Samuel, 1015 North Leffenwell Ave., St. Louis, Mo. (27). **A D**
Mateer, Horace N., M.D., Wooster, Wayne Co., Ohio (36). **F E**
Mathews, Miss Mary Elizabeth, Lake Erie Seminary, Painesville, Ohio (41). **F**
Matlack, Charles, 924 N. 41st St., Philadelphia, Pa. (27). **I**
Mattison, Joseph G., 20 West 14th St., New York, N. Y. (30). **C**
Maxwell, Henry W., 70 First Place, Brooklyn, N. Y. (43).
Maynard, Geo. C., 1227 19th St., Washington, D. C. (35). **B D**
Maynard, Prof. Samuel T., Agricultural College, Amherst, Mass. (38).
Maynard, Washburn, Lieut. Com'd U. S. N., Bureau of Ordnance, Navy Dep't, Washington, D. C. (33). **B**
Means, John H., Palo Alto, Cal. (38). **E**
Meeds, Alonzo D., Univ. of Minnesota, Minneapolis, Minn. (42).
Meehan, Mrs. Thos., Germantown, Pa. (29).
Mell, Prof. P. H., Polytechnic Inst., Auburn, Ala. (39). **E**
Merrick, Hon. Edwin T., P. O. Box 606, New Orleans, La. (29). **E A**
Merrill, Harriet Bell, 563 Maryland Ave., Milwaukee, Wis. (43). **F**
Merrill, Mrs. Winifred Edgerton, Ph.D., 2 Sprague Place, Albany, N. Y. (35). **A**

Merryweather, George N., cor. 6th and Race Sts., Cincinnati, Ohio (30). **F H**
Merwin, Orange, Bridgeport, Conn. (38). **E**
METCALF, ORLANDO, 424 Telephone Building, Pittsburgh, Pa. (35). **D**
Miller, Clifford N., 604 Greenup St., Covington, Ky. (37). **D**
MILLER, EDGAR G., 213 E. German St., Baltimore, Md. (29). **E F A**
Miller, John A., 2500 Park Ave., Cairo, Ill. (22). **D**
Mills, James, M.A., Guelph, Ontario, Can. (31). **I C**
Minns, Miss S., 14 Louisburg Square, Boston, Mass. (32).
Mitting, E. Kennard, 416 Huron St., Chicago, Ill. (40).
Mixer, Fred. K., 427 Delaware Ave., Buffalo, N. Y. (35). **E**
Mohr, Dr. Charles, Mobile, Ala. (40). **G**
Molson, John H. R., Montreal, P. Q., Can. (31).
Moody, Lucius W., New Haven, Conn. (43). **H**
Moody, Mrs. Mary B., M.D., Fair Haven Heights, New Haven, Conn. (25). **E F**
Moore, Burton E. (41).
Moore, Geo. D., Ph.D., Polytechnic Inst., Worcester, Mass. (40).
Morey, Prof. William C., Rochester, N. Y. (41). **H I**
Morgan, Wm. F., Short Hills, N. J. (27).
Morrill, Prof. A. D., Hamilton College, Clinton, Oneida Co., N. Y. (37).
Morse, Mrs. Mary J., 57 Jackson St., Lawrence, Mass. (29). **C**
Moseley, Edwin L., A.M., High School, Sandusky, Ohio (34).
Moss, Mrs. J. Osborne, Sandusky, Ohio (35). **F**
Mowry, Wm. A., 17 Riverside Square, Hyde Park, Mass. (29). **I**
Muir, John, Martinez, Cal. (22).
Mulliken, Samuel P., 46 High St., Newburyport, Mass. (43).
Munson, Prof. Welton M., Maine State College, Orono, Me. (41).
Murphy, Edward, M.D., New Harmony, Ind. (39). **C**
Myer, Mrs. Isaac, 21 E. 60th St., New York, N. Y. (44).
Myers, William S., S.B., F.C.S., Rutgers Coll., New Brunswick, N. J. (43). **C**

Neff, Peter, jr., The Arctic Machine Mfg Co., Cleveland, Ohio (34). **B**
Nelson, Wm., Rooms 7 and 8, Paterson Nat'l Bank, Paterson, N. J. (42).
Nelson, Wolfred, C.M., M.D., Astor House, New York, N. Y. (35). **H E**
Nesmith, Henry E., jr., 28 South St., New York, N. Y. (30). **B F C**
Newcombe, Frederick Chas., 51 E. Liberty St., Ann Arbor, Mich. (43). **G**
Nichols, A. B., Rosemont, Pa. (33). **D**
Nichols, Austin P., 4 Highland Ave., Haverhill, Mass. (37).
Norton, Prof. Wm. H., Mt. Vernon, Iowa (39). **E**
Nourse, Prof. David O., Blacksburgh, Va. (43).
Noyes, Miss Mary C., Guilford Cottage, 60 Bellflower Ave., Cleveland, Ohio (43).
Nunn, R. J., M.D., 119 York St., Savannah, Ga. (33).

O'Connor, Joseph, 146 Frank St., Rochester, N. Y. (41).
Olds, Prof. George D., Amherst, Mass. (38). **A**

O'Neill, Wm. Lane, Downing Building, New York, N. Y. (43).
Orleman, Miss Daisy M., Prof. Peekskill Military Acad., Peekskill, N. Y. (40). **F**
Orr, William, Jr., 133 Catharine St., Springfield, Mass. (39). **F B**
Osborne, Mrs. Ada M., Waterville, Oneida Co., N. Y. (19). **E**
Osborne, Amos O., Waterville, Oneida Co., N. Y. (19). **E**
Osgood, Joseph B. F., Salem, Mass. (31).
Ostrander, Mrs. Sarah E., 910 Lafayette Ave., Brooklyn, N. Y. (43).
O'Sullivan, Rev. Denis T., S.J., Woodstock, Howard Co., Md. (40). **B A**
Oviatt, David B., Georgia School of Technology, Atlanta, Ga. (40). **D**
Owen, Prof. D. A., Franklin, Ind. (34). **E**

PAGE, DR. DUDLEY L., 46 Merrimack St., Lowell, Mass. (33). **F**
PAGE, MRS. NELLIE K., 46 Merrimack St., Lowell, Mass. (33). **F**
Palmer, Dr. Edward, care F. V. Coville, Dep't of Agric., Washington, D. C. (22). **H**
Pardo, Carlos, 150 Fifth Ave., New York, N. Y. (36). **A H**
Parker, Harriet P., 2 Grace Court, Brooklyn, N. Y. (43).
Parker, Herschel C., 21 Fort Greene Place, Brooklyn, N. Y. (43).
Parker, J. D., Chaplain, San Diego, Cal. (34). **H**
Parks, C. Wellman, U. S. Dept. of Education, Washington, D. C. (42).
Parks, Prof. R. M., Bedford, Ind. (39). **C**
Parmelee, H. P., 113 Bennett Ave., Cripple Creek, Col. (42). **H E**
Parsons, Prof. C. Lathrop, Durham, N. H. (41).
PARSONS, JNO. E. (36).
Patten, John, care The E. D. Onion Ice Co., Baltimore, Md. (43).
Patton, Horace B., Golden, Col. (37). **E**
Paul, Caroline A., M.D., Vineland, Cumberland Co., N. J. (23).
Payne, Frank Fitz, Meterological Office, Toronto, Ontario, Can. (38).
Peale, Albert C., M.D., U. S. Geol. Survey, Washington, D. C. (36). **E**
Peck, Mrs. Emma J., 185 W. Chester Park, Boston, Mass. (40).
Peck, Mrs. John H., 3 Irving Place, Troy, N. Y. (28).
Peck, W. A., C.E., 1051 Clarkson St., Denver, Col. (19). **E**
Peckham, Wheeler H., Drexel Building, Wall St., New York, N. Y. (36).
Pedrick, Miss Catherine F., Lawrence, Mass. (43).
Peffer, George P., Box 33, Pewaukee, Wis. (32). **D I**
Peirce, Cyrus N., D.D.S., 1415 Walnut St., Philadelphia, Pa. (31). **F**
Peirce, Harold, 331 Walnut St., Philadelphia, Pa. (33). **H I**
Pell, Alfred, Highland Falls, N. Y. (36).
PERKINS, ARTHUR, 14 State St., Hartford, Conn. (31). **B A**
Perkins, Frank K., Principal Grammar School No. 26, Gates Ave., near Ralph, Brooklyn, N. Y. (43).
Perry, Hon. Andrew J., 30 First Place, Brooklyn, N. Y. (43).
Perry, Arthur C., 615 St. Marks Ave., Brooklyn, N. Y. (43). **A B**
Peters, Mrs. Bernard, 83 Lee Ave., Brooklyn, N. Y. (36).
Petitdidier, O. L., Mt. Carmel, Ill. (39). **A B D**
Pettee, Rev. J. T., Meriden, Conn. (39).

Pfeiffer, Prof. Geo. B., Washington High School, Westwood, Prince George Co., Md. (40). **B C**
Pfister, Joseph Clement, 240 Sixth Ave. (Roseville), Newark, N. J. (43).
Phillips, Orville P., University, Los Angeles Co., Cal. (43).
Phillips, Dr. Wm. A., Evanston, Ill. (41). **H**
Pickett, Dr. Thos. E., Maysville, Mason Co., Ky. (25). **H F**
Pickett, W. D., Wise, Big Horn Co., Wyo. (41). **D I**
Pierce, Josiah, Jr., 922 Equitable Building, Baltimore, Md. (40). **E**
Pierce, Perry Benj., U. S. Patent Office, Washington, D. C. (40). **H**
PIERREPONT, HENRY E., 216 Columbia Heights, Brooklyn, N. Y. (43).
Pike, J. W., Mahoning, Portage Co., Ohio (29). **E C F**
Pilling, J. W., 1301 Mass. Ave., Washington, D. C. (40).
Pillsbury, J. E., Lieut. U. S. N., 225 Commonwealth Ave., Boston, Mass. (33). **E B**
Pitkin, Lucius, 138 Pearl St., New York, N. Y. (29).
Place, Edwin, Terre Haute, Ind. (33). **B**
Pomeroy, Charles Taylor, cor. Passaic & Reynolds Ave's, East Newark, N. J. (43).
Pope, Edward S., 235 Blackford St., Indianapolis, Ind. (39).
Porteous, John, 176 Falmouth St., Boston, Mass. (22).
Porter, Miss Edna, 77 Bryant St., Buffalo, N. Y. (41). **F G**
Post, Prof. Charles M., Alfred Centre, N. Y. (39). **B**
Potter, Mrs. Charles B., 111 Spring St., Rochester, N. Y. (41). **H**
Potter, Rev. Henry C., 804 Broadway, New York, N. Y. (29).
Potter, Henry Noel, 111 Spring St., Rochester, N. Y. (41). **B**
POTTER, O. B., 26 Lafayette Place, New York, N. Y. (36).
Powell, Thomas, 16 S. Main St., Fort Scott, Kansas (41).
Prang, Louis, 45 Centre St., Roxbury, Mass. (29). **D**
Prentiss, George H., 77 First Place, Brooklyn, N. Y. (43).
Prentiss, Mrs. George H., 77 First Place, Brooklyn, N. Y. (43).
Preswick, E. H., Ithaca, N. Y. (35). **C**
Price, J. Sergeant, 709 Walnut St., Philadelphia, Pa. (33).
Prince, Gen. Henry, U. S. A., Fitchburg, Mass. (22).
Proctor, Thomas, 197 South Oxford St., Brooklyn, N. Y. (43).
Prosser, Col. Wm. F., North Yakima, Yakima Co., Washington (26). **E I**
PRUYN, JOHN V. L., JR., Albany, N. Y. (29).
Pulsifer, Mrs. C. L. B., Newton Centre, Mass. (33).
Purinton, Prof. George D., Columbia, Mo. (31). **C F**
Putnam, Chas. P., M.D., 63 Marlborough St., Boston, Mass. (28).
Putnam, Henry Cleveland, Eau Clair, Wis. (43).

Quick, Robert W., Ithaca, N. Y. (43).

Rand, C. F., M.D., 1228 15th St. N. W., Washington, D. C. (27). **E H**
Randolph, Prof. L. S., Blacksburgh, Va. (33). **D**
Rane, Frank Wm., Exper. Station, Morgantown, W. Va. (42).
Ray, P. H., Capt. U. S. Army, Omaha, Nebraska (40).

Read, Edmund E., jr., 604 Cooper St., Camden, N. J. (39). **A B**
Reber, Prof. Louis E., State College, Centre Co., Pa. (35). **D**
Rèche, Miss Eugénie M., 31 Howell St., Rochester, N. Y. (41). **E H**
Redding, Prof. Allen C., 1000 No. Cory St., Findlay, Ohio (39). **C**
Reed, Charles J., 609 Norris St., Philadelphia, Pa. (34). **C B**
Reed, Taylor, Princeton, N. J. (38). **A**
Reichel, Rev. George V., Brockport, N. Y. (41). **F H**
Remington, Cyrus K., 11 E. Seneca St., Buffalo, N. Y. (35). **E**
Renninger, John S., M.D., Marshall, Minn. (31). **C F**
Reyburn, Robert, M.D., 2129 F St., N. W., Washington, D. C. (33). **F**
Reynolds, George, P. O. Box B., Salt Lake City, Utah (44). **H**
Rice, Arthur L., Worcester Polytechnic Inst., Worcester, Mass. (43).
Rice, Edward L., A.B., Middletown, Conn. (43).
Rich, Jacob Monroe, 50 W. 38th St., New York, N. Y. (33). **B A**
Rich, Michael P., 50 W. 38th St., New York, N. Y. (40).
Richmond, Geo. B., 213 Washington Ave., N., Lansing, Mich. (34). **C B**
Ricketts, Col. R. Bruce, Wilkes Barre, Pa. (33). **E**
Rideout, Bates S., Norway, Me. (31). **E H**
Ries, Elias E., 430 South Broadway, Baltimore, Md. (33). **B I D**
Ries, Heinrich, Ph.B., Columbia College, New York, N. Y. (41). **E**
Riggs, Chauncey Wales, care of H. C. Warinner, 14 Madison St., Memphis, Tenn. (41). **H**
Riggs, Geo. W., Summit, N. J. (26). **C**
Riggs, Lawrason, 814 Cathedral St., Baltimore, Md. (36).
Ritter, Homer P., U. S. C. and G. Survey, Washington, D. C. (40).
Rivera, José de (29).
Roberts, Miss Jennie, Glenville, Conn. (43).
Robertson, James D., 411 and 412 Roe Building, St. Louis, Mo. (41). **E**
Robertson, Thomas D., Rockford, Ill. (10). **E H**
Robinson, Prof. Norman, Tallahassee, Florida (40).
Robinson, Prof. Otis Hall, 273 Alexander St., Rochester, N. Y. (23). **B A**
Rochester, DeLancey, M.D., 469 Franklin St., Buffalo, N. Y. (35). **F**
Rockwood, Charles G., Newark, N. J. (36).
Roessler, Franz, 73 Pine St., New York, N. Y. (39).
Rogers, Frederick J., Ithaca, N. Y. (40).
Rolfe, Charles W., Univ. of Illinois, Champaign, Ill. (32).
Rolfs, P. H., Florida Agricultural College, Lake City, Fla. (41).
Rolker, Charles M., 20 Nassau St., New York, N. Y. (43). **D**
Roosevelt, Hon. Robert B., 33 Nassau St., New York, N. Y. (33). **B F**
Roosevelt, Mrs. Marion T., 57 Fifth Avenue, New York, N. Y. (31). **H I**
Rosell, Claude A. O., 1131 9th St., N. W., Washington, D. C. (40).
Ross, Denman Waldo, Ph.D., Cambridge, Mass. (29).
Rotch, A. Lawrence, Readville, Mass. (39)
Roth, Filibert, U. S. Dep't of Agric., Washington, D. C. (39). **F**
Rothe, Wm. G., 226 Stuyvesant Ave., Brooklyn, N. Y. (43).
Ruland, M. A , 292 Green Ave., Brooklyn, N. Y. (43).

Rupp, August, A.B., College of City of New York, New York, N. Y. (35).
Rupp, Philip, M.D., 84 Second Ave., New York, N. Y. (35).
Russell, A. H., Captain of Ordnance, U. S. A., Rock Island Arsenal, Rock Island, Ill. (38). **D**
Rust, Horatio N., Colton, San Bernardino Co., Cal. (26). **H**
Ryker, J. N., U. S. Weather Bureau, Lynchburg, Va. (41).

Sackett, Miss Eliza D., Cranford, N. J. (35). **F H**
Sage, John H., Portland, Conn. (23). **F**
Samuel, Mark, 10 E. 16th St., New York, N. Y. (43).
Sander, Dr. Enno, St. Louis, Mo. (27). **C**
Saunders, Prof. Charles E., 233 Robert St., Toronto, Can. (41). **C**
Saunders, Walter M., Olneyville, R. I. (43).
Sayre, Robert H., South Bethlehem, Pa. (28). **D**
SCHAFFER, CHAS., M.D., 1309 Arch St., Philadelphia, Pa. (29). **F E**
SCHAFFER, MRS. MARY TOWNSEND SHARPLESS, 1309 Arch St., Philadelphia, Pa. (38). **F E**
Scharar, Christian H., 2073 N. Main Ave., Scranton, Pa. (33). **A D E H**
SCHERMERHORN, F. AUG., 61 University Place, New York, N. Y. (36).
SCHERMERHORN, WM. C., 49 W. 23d St., New York, N. Y. (36).
Schieren, Hon. Charles A., Brooklyn, N. Y. (43). **I C**
Schimpf, Prof. Henry W., 365 Franklin Ave., Brooklyn, N. Y. (43)
Schmid, Dr. H. Ernest, White Plains, N. Y. (25).
Schneck, Jacob, M.D., Mount Carmel, Ill. (41). **E F H**
Schobinger, John J., 2101 Indiana Ave., Chicago, Ill. (34). **B**
Schöney, Dr. L., 68 East 104th St., New York, N. Y. (29). **F**
Schryver, Miss Annie A., Teachers College, New York, N. Y. (41).
Schuette, J. H., Green Bay, Wis. (34). **F E B**
Schultz, Carl H., 430-440 First Ave., New York, N. Y. (29).
Schwarz, E. A., U. S. Dep't of Agric., Washington, D. C. (29). **F**
Scott, Martin P., M.D., Maryland Agric. Coll., College Park, Md. (31).
Scoville, S. S., M.D., Lebanon, Ohio (30). **E F**
Scull, Miss Sarah A., 1100 M St., Washington, D. C. (40). **H**
Seamon, Prof. William H., Eng., Aurora, Mo. (38).
Searing, Anna H., M.D., 52 East Ave., Rochester, N. Y. (41). **G**
Sebert, William F., 353 Clinton St., Brooklyn, N. Y. (41). **A E**
Serrell, Lemuel W., 140 Nassau St., New York, N. Y. (36). **D**
Shaw, Cyrus W., Mountainville, Orange Co,, N. Y. (43). **I**
Shaw, Prof. James Byrnie, 1011 W. Coll., Ave., Jacksonville, Ill. (43). **A**
SHEAFER, A. W., Pottsville, Pa. (28).
Shepard, William A., Saratoga Springs, N. Y. (28).
Shepherd, Elizabeth, 253 W. 128th St., New York, N. Y. (39).
Sherman, Orray Taft, 379 Harvard St., Cambridge, Mass. (39).
Shonnard, Hon. Frederic, Yonkers, N. Y. (39). **E F H**
Shultz, Charles S., Hoboken, N. J. (31). **F**
Siebel, John E., Director Zymotechnic Inst., 1424 Montana St., Chicago, Ill. (39). **C B F E**

Siemon, Rudolph, 191 Calhoun St., Fort Wayne, Ind. (40). **A F**
SILVER, L. B., 172 Summit St., Cleveland, Ohio (37).
Simon, Dr. Wm., 1348 Block St., Baltimore, Md. (29). **C**
Skiff, F. J. V., Director Field Columbian Museum, Chicago, Ill. (43).
Skilton, George S., 372 Decatur St., Brooklyn, N. Y. (43).
Skilton, James A., 115 Broadway, New York, N. Y. (43).
Slade, Elisha, Somerset, Bristol Co., Mass. (29). **F**
Slocum, Chas. E., M.D., Defiance, Ohio (34). **F**
Slosson, Prof. Edwin E., Univ. of Wyoming, Laramie, Wyo. (42).
Smedley, Sam'l L., Chief Eng., City Hall, Philadelphia, Pa. (33). **D**
Smillie, Thomas W., U. S. National Museum, Washington, D. C. (40). **F**
Smith, Prof. Albert L., Box 263, Englewood, Ill. (41). **C**
Smith, Andrew J., M.D., Metamora, Franklin Co., Ind. (39).
Smith, Benj. G., 11 Fayerweather St., Cambridge, Mass. (29). **I**
Smith, Charles H., 5484 Monroe Ave., Chicago, Ill. (33). **D**
Smith, De Cost, Skaneateles, N. Y. (38). **H**
Smith, Ernest Ellsworth, 819 Madison Ave., New York, N. Y. (43).
Smith, E. Reuel, Skaneateles, N. Y. (38).
Smith, Harlan I., Saginaw, E. S., Mich. (41). **H**
Smith, Prof. Harold B., Purdue Univ., Lafayette, Ind. (43). **B**
Smith, Henry L., 149 Broadway, New York, N. Y. (26).
Smith, Mrs. Henry L., 149 Broadway, New York, N. Y. (26).
Smith, Prof. Herbert S. S., Coll. of N. Jersey, Princeton, N. J. (29). **D**
Smith, James Hervey, Baldwin Univ., Berea, Ohio (40).
Smith, Miss Jane, Peabody Museum, Cambridge, Mass. (29). **H**
Smith, Jos. R., Col. & Ass't Surg. U. S. A., Med. Director, Dep't of the East, Governor's Island, New York, N. Y. (43).
Smith, Mrs. Marshall E., 4011 Baring St., Philadelphia, Pa. (40). **H I**
Smith, Prof. Thomas A., Beloit, Wis. (33). **B A**
SMITH, USELMA C., 707 Walnut St., Philadelphia, Pa. (33). **F**
Smyth, Prof. Jas. D., Burlington, Iowa (28). **I**
Snyder, John F., M.D., Virginia, Cass Co., Ill. (42).
Soule, Wm., Ph.D., Alliance, Ohio (33). **B C E**
Southwick, E. B., Arsenal Building, Central Park, New York, N. Y. (36)
Souvielle, Mathieu, M.D., Box 355, Jacksonville, Fla. (36). **B E F**
Souvielle, Mrs. M., Box 355, Jacksonville, Fla. (24). **A B F**
Speck, Hon. Charles, 1206 Morrison Ave., St. Louis, Mo. (27).
Spencer, Arthur Coe, B.S., Iowa Geol. Sur., Des Moines, Iowa (41). **E**
SPENZER, JOHN G., M.D., 368 Central Ave., Cleveland, Ohio (37). **C**
Speyers, Clarence L., Rutgers College, New Brunswick, N. J. (36). **C**
Spilsbury, E. Gybbon, 13 Burling Slip, New York, N. Y. (33). **E D**
Spinney, L. B., Ames, Iowa (42). **B**
Spofford, Paul N., P. O. Box 1667, New York, N. Y. (36).
SPRAGUE, C. H., Malden, Mass. (29).
Sprague, Frank J., 182 West End Ave., New York, N. Y. (29).
Spurr, Josiah E., A.B., 8 Gerring St., Gloucester, Mass. (43). **E**
Squibb, Charles F., A.B., 150 Columbia Heights, Brooklyn, N. Y. (43).

Squibb, Edward Hamilton, M.D., 148 Columbia Heights, Brooklyn, N. Y. (41). **F**
Squibb, Edward R., M.D., 152 Columbia Heights, Brooklyn, N. Y. (43).
Stam, Colin F., Chestertown, Md. (33). **C F**
Steiger, George, Chem. Laboratory, U. S. Geol. Survey, Washington, D. C. (40). **C E B**
Stein, Dr. S. G., Muscatine, Iowa (43).
Steinmetz, Chas. Proteus, General Electric Co., Lynn, Mass. (40).
Stevens, Geo. T., M.D., 33 West 33d St., New York, N. Y. (28). **B F**
Stieglitz, Dr. Julius, Univ. of Chicago, Chicago, Ill. (39). **C**
Stillman, Prof. John M., Palo Alto, Cal. (41).
Stine, Prof. W. M., Director Elect. Dept., Armour Institute, Chicago, Ill. (37). **A C**
Stoller, Prof. James H., Union College, Schenectady, N. Y. (36). **E F**
Stone, D. D., Lansing, N. Y. (39). **F**
Stone, Miss Ellen Appleton, 280 Waterman St., Providence, R. I. (42). **E F**
Stone, Lincoln R., M.D., Newton, Mass. (31).
Stowell, John, 48 Main St., Charlestown, Mass. (21).
Stradling, Prof. George F., Hatboro, Montgomery Co., Pa. (41).
Streeruwitz, W. H. von, Austin, Texas (40).
Stubbs, W. C., Audubon Park, New Orleans, La. (40).
Studley, Prof. Duane, 410 E. Main St., Crawfordsville, Ind. (41). **A**
Sudworth, George B., Dept. of Agric., Forestry Div., Washington, D. C. (41). **G**
Sullivan, J. A., care Dr. Sullivan, 310 Main St., Malden, Mass. (27). **A**
Sullivan, J. C., M.D., Cairo, Ill. (40). **A**
Summers, Henry E., Champaign, Ill. (42). **F**
Swasey, Oscar F., M.D., Beverly, Mass. (17).
Sweet, Henry N., 89 State St., Boston, Mass. (40). **H D**
Sweetnam, Geo. Booker, 39 St. Vincent St., Toronto, Ontario, Can. (38).

Taft, Elihu B., Burlington, Vt. (36). **H**
Talbott, Mrs. Laura Osborne, 927 P St., Washington, D. C. (36).
Talmage, Prof. James E., D.S.D., Ph.D., Curator Deseret Museum, Salt Lake City, Utah (41). **C F**
Taylor, Edward Randolph, Cleveland, Ohio (39). **C**
Taylor, F. B., Box 2019, Fort Wayne, Ind. (39).
Taylor, Hudson K., 61 Fowler St., Cleveland, Ohio (42). **C**
Taylor, Prof. Jas. M., Hamilton, Madison Co., N. Y. (33). **A D**
Taylor, Robert S., Box 2019, Fort Wayne, Ind. (39).
Taylor, William Alton, 1516 Caroline St., N. W., Washington, D. C. (40).
Teller, George L., Fayetteville, Washington Co., Ark. (40). **C**
Ternan, James C., P. O. Drawer 1033, Rochester, N. Y. (43).
Tesla, Nikola, LL.D., 55 W. 27th St., New York, N. Y. (43). **B**
Thaw, Mrs. Mary Copley, Pittsburgh, Pa. (41). **H**
Theilmann, Emil, Appleton City, Mo. (41).

Thompson, Alton Howard, 721 Kansas Ave., Topeka, Kan. (33). **H F**
Thompson, Daniel G., 120 Broadway, New York, N. Y. (29).
Thompson, Mrs. Ellen P., 1729 12th St., Washington, D. C. (40). **H**
Thompson, Mrs. Frank, 233 South 4th St., Philadelphia, Pa. (33).
THOMPSON, FRED'K F., 283 Madison Ave., New York, N. Y. (36).
Thompson, J. L., M.D., Indianapolis, Ind. (39). **F**
Thruston, R. C. Ballard, Louisville, Ky. (36). **E**
Tiffany, Asa S., 1221 Rock Island St., Davenport, Scott Co., Iowa (27) **E H**
Tight, Prof. William George, Granville, Ohio (39). **F**
Tilden, Dr. J. N., Peekskill, N. Y. (43).
Tindall, Willoughby C., Associate Prof. of Math., Univ. of Missouri, Columbia, Mo. (40).
Todd, Albert M., Nottawa, Mich. (37). **C**
Tooker, William Wallace, Sag Harbor, N. Y. (43).
Townsend, Prof. Charles O., Macon, Ga. (41). **F**
Townsend, Clinton P., Donaldsonville, La. (40). **C**
Townsend, Franklin, 4 Elk St., Albany, N. Y. (4).
Townsend, Henry C., 709 Walnut St., Philadelphia, Pa. (33). **I**
Treat, Erastus B., Publisher and Bookseller, 5 Cooper Union, cor. 4th Ave. and 8th St., New York, N. Y. (29). **F I**
Trenholm, Hon. W. L., Pres. Amer. Surety Co., 160 Broadway, New York, N. Y. (35).
Trowbridge, Luther H., East Grand Circus Park, Detroit, Mich. (29).
Trowbridge, Mrs. M. E. D., East Grand Circus Park, Detroit, Mich. (21).
Tudor, Joseph H., State College, Pa. (39). **A**
Tullock, Alonzo J., Engineer, Leavenworth, Kansas (35). **D**
Turner, J. Spencer, 109 Duane St., New York, N. Y. (43). **B**

Updegraff, Milton, Observatory, Columbia, Mo. (40). **A**

Vail, Prof. Hugh D., Santa Barbara, Cal. (18).
Valentine, Benj. B., Richmond, Va. (33). **H**
Valentine, Edw. P., Richmond, Va. (33). **H**
VAN BEUREN, FREDERICK T., 21 W. 14th St., New York, N. Y. (36).
Van Brunt, Cornelius, 319 E. 57th St., New York, N. Y. (28).
Van Slyke, James M., Madison, Wis. (42). **F**
Van Slyke, Lucius L., Agric. Exper. Station, Geneva, N. Y. (41).
Vaux, Geo., jr., 404 Girard Building, Philadelphia, Pa. (33). **E A**
Veeder, Major Albert, M.D., Lyons, Wayne Co., N. Y. (36).
Vermyné, J. J. B., M.D., 2 Orchard St., New Bedford, Mass. (29). **F**
Villard, Fanny G., Dobbs Ferry, N. Y. (36).
Vinal, W. Irving, 1106 East Capitol St., Washington, D. C. (40). **E**
Volk, Ernest, Trenton, N. J. (42). **H**
Voorhees, Chas. H., M.D., P. O. Lock Box 120, New Brunswick, N. J. (29). **F H**
Voorhees, Louis A., Agric. Exper. Station, New Brunswick, N. J. (43). **C**

Vredenburgh, Edw. H., 122 So. Fitzhugh St., Rochester, N. Y. (29).

Wagner, Frank C., care Wm. Wagner, Ann Arbor, Mich. (34). **D**
Wales, Salem H., 25 E. 55th St., New York, N. Y. (36).
Walker, Byron Edmund, Toronto, Ontario, Can. (38). **E**
Walker, George C., 228 Michigan Ave., Chicago, Ill. (17).
Walker, James, Seth Thomas Clock Co., 49 Maiden Lane, New York, N. Y. (43).
Walworth, Rev. Clarence A., 41 Chapel St., Albany, N. Y. (28). **E**
Wappenhaus, C. F. R., U. S. Weather Bureau, Indianapolis, Ind. (39). **B**
Ward, Frank A., 16-26 College Ave., Rochester, N. Y. (40).
Ward, J. Langdon, 120 Broadway, New York, N. Y. (29). **I**
Ward, Samuel B., M.D., Albany, N. Y. (29). **F C A**
Wardwell, George J., Rutland, Vt. (20). **D E**
Waring, John, Ovid, N. Y. (33). **D B**
Warner, Hulbert H. (31). **A**
Warren, Eugene C., 611 W. Main St., Louisville, Ky. (37).
Warren, Mrs. Susan E., 67 Mt. Vernon St., Boston, Mass. (29).
Warrington, James N., 127 Park Ave., Chicago, Ill. (34). **D A B**
WATERS, GEO. F., 6 Somerset St., Boston, Mass. (29). **B F H E D**
Watkins, John E., C.E., National Museum, Washington, D. C. (40). **D**
Watkins, L. D., Manchester, Mich. (34). **C**
Watson, Miss C. A., Salem, Mass. (31). **D**
Watson, Elizabeth S., Weymouth, Mass. (42). **E**
Watson, Thomas A., Weymouth, Mass. (42). **E**
Watson, Thomas L., Agric. Exper. Station, Agric. and Mechan. College, Blacksburgh, Va. (42).
Watters, William, M.D., 26 So. Common St., Lynn, Mass. (40). **E G**
Watts, A. J., M.D., 1123 Bedford Ave., Brooklyn, N. Y. (43).
Waugh, D. W., M.D., 388 Clinton St., Brooklyn, N. Y. (43).
Weaver, Gerrit E. Hambleton, A.M., 300 So. 36 St., Philadelphia, Pa. (38). **G I**
Webster, Mrs. N. B., Vineland, N. J. (43).
Weed, H. E., Agricultural College, Miss. (40). **F**
Weed, J. N., 71 Water St., Newburgh, N. Y. (37). **E I**
Weeden, Hon. Joseph E., Randolph, Cattaraugus Co., N. Y. (31).
Weeks, Joseph D., Editor Amer. Manufacturer, Pittsburg, Pa. (35). **D**
Weld, Prof. Laenas G., State Univ. of Iowa, Iowa City, Iowa (41). **A**
Wells, Mrs. C. F., 27 E. 21st St., New York, N. Y. (31). **H F I D B**
Wells, Samuel, 31 Pemberton Square, Boston, Mass. (24). **H**
Wells, William H., jr., 274 Ashland Ave., Chicago, Ill. (39). **E**
Werum, Jno. H., Toledo, Ohio (40).
WEST, Dr. CHARLES E., Brooklyn, N. Y. (1).
Wetzler, Jos., 203 Broadway, New York, N. Y. (36).
Wheeler, Herbert A., 2700 Pine St., St. Louis, Mo. (33). **E I**
Wheeler, T. B., M.D., 123 Metcalfe St., Montreal, P. Q., Can. (11).
Wheeler, William, C.E., Concord, Mass. (41).

Whetstone, John L., Summit Ave., Mt. Auburn, Cincinnati, Ohio (30). **D**
White, LeRoy S., Box 324, Waterbury, Conn. (23).
White, Thaddeus R., 257 W. 45th St., New York, N. Y. (42). **A**
Whitehead, John M., Att'y at Law, Janesville, Rock Co., Wis. (41). **I**
Whitfield, Thomas, Ph.D., 240 Wabash Ave., Chicago, Ill. (41). **C**
Whiting, Mrs. Francis, Jeffersonville, Montgomery Co., Pa. (40).
Whiting, S. B., 11 Ware St., Cambridge, Mass. (33). **D**
Whitman, Prof. Charles O., Chicago Univ., Chicago, Ill. (43). **F**
Whitney, E. R., 20 North St., Binghamton, N. Y. (41).
WHITNEY, JOSIAH D., Cambridge, Mass. (1).
Wilbor, Rev. Wm. C., Ph.D., 498 W. Ferry St., Buffalo, N. Y. (39). **F**
Wilbour, Mrs. Charlotte B., Little Compton, R. I. (28).
Wilbur, Miss F. Isabel, 1719 15th St., N. W., Washington, D. C. (42). **E H**
Wilcox, Miss Emily T., Meriden, Conn. (33). **B A**
Wilder, Alex., M.D., 5 No. 11th St., Newark, N. J. (29). **H F I**
Wilkinson, J. Henderson, 320 E. Capitol St., Washington, D. C. (35). **E**
Willetts, Joseph C., Skaneateles, N. Y. (29). **E F H**
Williams, H. Smith, M.D., Randall's Island, New York, N. Y. (34). **F**
Williams, Rev. Theodore B., 170 Meigs St., Rochester, N. Y. (41).
Willitts, George E., 709 S. Grand St., Lansing, Mich. (39). **F**
WILMARTH, MRS. HENRY D., 51 Eliot St., Jamaica Plain, Mass. (40).
Wilmot, Thos. J., Commercial Cable Co., Waterville, County Kerry, Ireland (27). **B**
Wilson, Prof. Andrew G., Lenox Coll., Hopkinton, Iowa (43). **E**
Wilson, Fred., 337 Fourth Ave., New York, N. Y. (43).
Wilson, Robert N., Macleod, Alberta, Can. (42). **H**
Wingate, Miss Hannah S., 2101 Fifth Ave., New York, N. Y. (31). **E I**
Wisser, John P., 1st Lt. 1st Artillery, U. S. A., Fort Hamilton, New York Harbor, N. Y. (33). **C**
Wolcott, Mrs. Henrietta L. T., Dedham, Mass. (29).
Woll, Fritz Wilhelm, Madison, Wis. (42). **C**
Wood, Rev. Charles, D.D., West Walnut Lane, Germantown, Pa. (43).
Wood, Mrs. Cynthia A., 171 W. 47th St., New York, N. Y. (43).
Wood, Thomas Bond, LL.D., care U. S. Legation, Lima, Peru (43).
WOOD, WALTER, 400 Chestnut St., Philadelphia, Pa. (33). **F I**
Woodhull, John Francis, Teachers' College, Morningside Heights, New York, N. Y. (43).
Woodland, Jesse E., Havana, N. Y. (41). **F**
Woodman, Dr. Durand, 80 Beaver St., New York, N. Y. (41).
Woodrow, James, Pres. South Carolina Coll., Colnmbia, S. C. (43).
Woodward, Gen. John B., Pres. Brooklyn Inst. of Arts and Sciences, Brooklyn, N. Y. (43).
Woodworth, Chauncey C., Rochester, N. Y. (41). **I**
Wrenshall, John C., Baltimore, Md. (40). **H**
Wright, Jonathan, M.D., 73 Remsen St., Brooklyn, N. Y. (43).
Wright, Mrs. Jonathan, 73 Remsen St., Brooklyn, N. Y. (43).

Wright, John S., care Eli Lilly & Co., Indianapolis, Ind. (42). **G**
Wright, Rufus, 333–339 Lake St., Chicago, Ill. (37). **B**
Wright, S. G., La Fayette, Ind. (42). **G**
Wunderlich, Frederick W., M.D., 165 Remsen St., Brooklyn, N. Y. (43).
Würtele, Miss Minnie, Acton Vale, P. Q., Can. (32). **H**

Youmans, Mrs. Celia G., Mount Vernon, N. Y. (36).
Youmans, Vincent J., Mt. Vernon, N. Y. (43).
Yowell, Everett I., Station "C," Cincinnati, Ohio (41). **A**

Zeng, Miss Nellie E. de, Clyde, Wayne Co., N. Y. (41). **B H**
Ziegler, William, 45–49 Cedar St., New York, N. Y. (43).

[1053 PATRONS, CORRESPONDING MEMBERS AND MEMBERS.]

NOTE.—The omission of an address in the foregoing list indicates that letters directed to that last printed were returned as uncalled for. Information of the present address of the members so indicated is requested by the PERMANENT SECRETARY.

SURVIVING FOUNDERS.

[At the Brooklyn Meeting, 1894, a resolution was unanimously adopted by which all surviving founders of the Association who have maintained an interest in science were made Honorary Life Members of the Association in recognition of their pioneer work in American Science.]

BOUVÉ, THOMAS T., Boston, Mass.
DIXWELL, EPES S., Cambridge, Mass.
GREEN, TRAILL, Easton, Pa.
HALL, JAMES, Albany, N. Y.
HUBBARD, BELA, Detroit, Mich.
WEST, CHARLES E., Brooklyn, N. Y.
WHITNEY, JOSIAH D., Cambridge, Mass.

Whetstone, John L., Summit Ave., Mt. Auburn, Cincinnati, Ohio (30). **D**
White, LeRoy S., Box 324, Waterbury, Conn. (23).
White, Thaddeus R., 257 W. 45th St., New York, N. Y. (42). **A**
Whitehead, John M., Att'y at Law, Janesville, Rock Co., Wis. (41). **I**
Whitfield, Thomas, Ph.D., 240 Wabash Ave., Chicago, Ill. (41). **C**
Whiting, Mrs. Francis, Jeffersonville, Montgomery Co., Pa. (40).
Whiting, S. B., 11 Ware St., Cambridge, Mass. (33). **D**
Whitman, Prof. Charles O., Chicago Univ., Chicago, Ill. (43). **F**
Whitney, E. R., 20 North St., Binghamton, N. Y. (41).
WHITNEY, JOSIAH D., Cambridge, Mass. (1).
Wilbor, Rev. Wm. C., Ph.D., 498 W. Ferry St., Buffalo, N. Y. (39). **F**
Wilbour, Mrs. Charlotte B., Little Compton, R. I. (28).
Wilbur, Miss F. Isabel, 1719 15th St., N. W., Washington, D. C. (42). **E H**
Wilcox, Miss Emily T., Meriden, Conn. (33). **B A**
Wilder, Alex., M.D., 5 No. 11th St., Newark, N. J. (29). **H F I**
Wilkinson, J. Henderson, 320 E. Capitol St., Washington, D. C. (35). **E**
Willetts, Joseph C., Skaneateles, N. Y. (29). **E F H**
Williams, H. Smith, M.D., Randall's Island, New York, N. Y. (34). **F**
Williams, Rev. Theodore B., 170 Meigs St., Rochester, N. Y. (41).
Willitts, George E., 709 S. Grand St., Lansing, Mich. (39). **F**
WILMARTH, MRS. HENRY D., 51 Eliot St., Jamaica Plain, Mass. (40).
Wilmot, Thos. J., Commercial Cable Co., Waterville, County Kerry, Ireland (27). **B**
Wilson, Prof. Andrew G., Lenox Coll., Hopkinton, Iowa (43). **E**
Wilson, Fred., 337 Fourth Ave., New York, N. Y. (43).
Wilson, Robert N., Macleod, Alberta, Can. (42). **H**
Wingate, Miss Hannah S., 2101 Fifth Ave., New York, N. Y. (31). **E I**
Wisser, John P., 1st Lt. 1st Artillery, U. S. A., Fort Hamilton, New York Harbor, N. Y. (33). **C**
Wolcott, Mrs. Henrietta L. T., Dedham, Mass. (29).
Woll, Fritz Wilhelm, Madison, Wis. (42). **C**
Wood, Rev. Charles, D.D., West Walnut Lane, Germantown, Pa. (43).
Wood, Mrs. Cynthia A., 171 W. 47th St., New York, N. Y. (43).
Wood, Thomas Bond, LL.D., care U. S. Legation, Lima, Peru (43).
WOOD, WALTER, 400 Chestnut St., Philadelphia, Pa. (33). **F I**
Woodhull, John Francis, Teachers' College, Morningside Heights, New York, N. Y. (43).
Woodland, Jesse E., Havana, N. Y. (41). **F**
Woodman, Dr. Durand, 80 Beaver St., New York, N. Y. (41).
Woodrow, James, Pres. South Carolina Coll., Colnmbia, S. C. (43).
Woodward, Gen. John B., Pres. Brooklyn Inst. of Arts and Sciences, Brooklyn, N. Y. (43).
Woodworth, Chauncey C., Rochester, N. Y. (41). **I**
Wrenshall, John C., Baltimore, Md. (40). **H**
Wright, Jonathan, M.D., 73 Remsen St., Brooklyn, N. Y. (43).
Wright, Mrs. Jonathan, 73 Remsen St., Brooklyn, N. Y. (43).

Wright, John S., care Eli Lilly & Co., Indianapolis, Ind. (42). **G**
Wright, Rufus, 333–339 Lake St., Chicago, Ill. (37). **B**
Wright, S. G., La Fayette, Ind. (42). **G**
Wunderlich, Frederick W., M.D., 165 Remsen St., Brooklyn, N. Y. (43).
Würtele, Miss Minnie, Acton Vale, P. Q., Can. (32). **H**

Youmans, Mrs. Celia G., Mount Vernon, N. Y. (36).
Youmans, Vincent J., Mt. Vernon, N. Y. (43).
Yowell, Everett I., Station "C," Cincinnati, Ohio (41). **A**

Zeng, Miss Nellie E. de, Clyde, Wayne Co., N. Y. (41). **B H**
Ziegler, William, 45–49 Cedar St., New York, N. Y. (43).

[1053 PATRONS, CORRESPONDING MEMBERS AND MEMBERS.]

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SURVIVING FOUNDERS.

[At the Brooklyn Meeting, 1894, a resolution was unanimously adopted by which all surviving founders of the Association who have maintained an interest in science were made Honorary Life Members of the Association in recognition of their pioneer work in American Science.]

BOUVÉ, THOMAS T., Boston, Mass.
DIXWELL, EPES S., Cambridge, Mass.
GREEN, TRAILL, Easton, Pa.
HALL, JAMES, Albany, N. Y.
HUBBARD, BELA, Detroit, Mich.
WEST, CHARLES E., Brooklyn, N. Y.
WHITNEY, JOSIAH D., Cambridge, Mass.

HONORARY FELLOWS.[1]

ROGERS, PROF. WILLIAM B., Boston, Mass. (1). 1881. (Born Dec. 7, 1804. Died May 30, 1882.) **B E**

CHEVREUL, MICHEL EUGÈNE, Paris, France (35). 1886. (Born Aug. 31, 1786. Died April 9, 1889.) **C**

GENTH, DR. F. A., 3937 Locust St., Philadelphia, Pa. (24). 1888. (Born May 17, 1820. Died Feb. 2, 1892.) **C E**

HALL, PROF. JAMES, Albany, N. Y. (1). 1890. **E F**

FELLOWS.[2]

Abbe, Professor Cleveland, Meteorologist, Weather Bureau, Dept. of Agric., Washington, D. C. (16). 1874. **B A**

Abbe, Dr. Robert, 11 W. 50th St., New York, N. Y. (36). 1892.

Abert, S. Thayer, 1108 G St., N. W., Washington, D. C. (30). 1891. **A B D E I**

Alden, Prof. Geo. I., Worcester, Mass. (33). 1885. **D**

Allen, Dr. T. F., 10 E. 36th St., New York, N. Y. (35). 1887. **G**

Alvord, Major Henry E., Lewinsville, Fairfax Co , Va. (29). 1882. **I**

Alwood, Prof. Wm. B., Agricultural and Mechanical College and Experiment Station, Blacksburgh, Va. (39). 1891. **F**

Andrews, Prof. Launcelot W., Iowa City, Iowa (39). 1891. **C**

Anthony, Prof. Wm. A., 5 Beekman St., Temple Court, New York, N. Y. (28). 1880. **B**

Arey, Albert L., Free Academy, Rochester, N. Y. (35).

Arthur, J. C., La Fayette, Ind. (21). 1883. **G**

Ashmead, Wm. H., 1833 M St., N. W., Washington, D. C. (40). 1892. **F**

Atkinson, Edward, 31 Milk St., Boston, Mass. (29). 1881. **I D**

Atkinson, George F., Cornell Univ., Ithaca, N. Y. (39). 1892. **G**

Atwater, Prof. W. O., Wesleyan Univ., Middletown, Conn. (29). 1882. **C**

Atwell, Charles B., 1038 Sherman St., Evanston, Ill. (36). 1890. **F**

Auchincloss, Wm. S., 209 Church St., Philadelphia, Pa. (29). 1886. **D A**

Avery, Elroy M., Ph.D., 657 Woodland Hills Ave., Cleveland, Ohio (37). 1889. **B**

Ayres, Prof. Brown, Tulane Univ., New Orleans, La. (31). 1885. **B**

Babcock, S. Moulton, Madison, Wis. (33). 1885. **C**

Bailey, E. H. S., Lawrence, Douglas Co., Kan. (25). 1889. **C E**

Bailey, Prof. Liberty H., Cornell Univ., Ithaca, N. Y. (34). 1887. **G**

Baker, Frank, M.D., 1315 Corcoran St., Washington, D. C. (31). 1886. **F H**

[1] See ARTICLE VI of the Constitution. [2] See ARTICLE IV of the Constitution.

*** The number in parenthesis indicates the meeting at which the member joined the Association; the date following is the year when made a Fellow; the black letters at end of line are those of the sections to which the Fellow belongs.

When the name is given in small capitals, it designates that the Fellow is also a Life Member.

Baker, Marcus, U. S. Geological Survey, Washington, D. C. (30). 1882. **A**

Baldwin, Judge Charles C., 1264 Euclid Ave., Cleveland, Ohio (37). 1891. **H I**

Ballard, Harlan H., 50 South St., Pittsfield, Mass. (31). 1891. **E F**

BARKER, PROF. G. F., 3909 Locust St., Philadelphia, Pa. (13). 1875. **B C**

Barnard, Edward E., Lick Observatory, Mount Hamilton, Cal. (26). 1883, **A**

Barnes, Prof. Chas. R., Madison, Wis. (33). 1885. **G**

Bartlett, Prof. Edwin J., Dartmouth College, Hanover, N. H. (28). 1883. **C**

Bartlett, John R., Commander U. S. N., Lonsdale, R. I. (30). 1882. **E B**

Bartley, Elias H., M.D., 21 Lafayette Ave., Brooklyn, N. Y. (33). 1894. **C**

Barus, Carl, Ph.D., 2808 N St., N. W., Washington, D. C. (33). 1887. **B**

Bassett, Homer F., Waterbury, Conn. (23). 1874. **F**

Bates, Henry H., Ph.D., U. S. Patent Office, Washington, D. C. (33). 1887. **B A C D**

Battle, Herbert B., Ph.D., Director N. C. Agric. Exper. Station, Raleigh, N. C. (33). 1889. **C**

Bauer, Louis A., U. S. C. and G. Sur., Washington, D. C. (40). 1892. **A**

Bausch, Edward, P. O. Drawer 1033, Rochester, N. Y. (26). 1883. **A B C F**

Beal, Prof. Wm. James, Agricultural College, Ingham Co., Mich. (17). 1880. **G**

Beardsley, Prof. Arthur, Swarthmore College, Swarthmore, Del. Co., Pa. (33). 1885. **D**

Beauchamp, Rev. Wm. M., Baldwinsville, N. Y. (34). 1886. **H**

Becker, Dr. Geo. F., U. S. Geol. Survey, Washington, D. C. (36). 1890. **E**

Bedell, Frederick, Ph.D., Cornell Univ., Ithaca, N. Y. (41). 1894. **B A**

Bell, Alex. Melville, 1525 35th St., Washington, D. C. (31). 1885. **H**

Bell, Robert, M.D., Ass't Director Geological Survey, Ottawa, Ontario, Can. (38). 1889. **E F**

Beman, Wooster W., 19 So. 5th St., Ann Arbór, Mich. (34). 1886. **A**

BENJAMIN, MARCUS, 589 West End Ave., New York, N. Y. (27). 1887. **C**

Benjamin, Rev. Raphael, M.A., 28 E. 76 St., New York, N. Y. (34). 1887. **E F G H**

Bessey, Prof. Charles E., Univ. of Nebraska, Lincoln, Neb. (21). 1880. **G**

Bethune, Rev. C. J. S., Trinity College School, Pt. Hope, Ont., Can. (18). 1875. **F**

Beyer, Dr. Henry G., U. S. N., U. S. Naval Acad., Annapolis, Md. (31). 1884. **F**

Bickmore, Prof. Albert S., American Museum of Natural History, 8th Ave. and 77th St., Central Park, New York, N. Y. (17). 1880. **H**

Bigelow, Prof. Frank H., U. S. Weather Bureau, Washington, D. C. (36). 1888. **A**

Billings, John S., Surgeon U. S. A., Surg. General's Office, Washington, D. C. (32). 1883. **F H**

BIXBY, WM. H., Cap't of Eng. U. S. A., Newport, R. I. (34). 1892. D
Blackham, George E., M.D., Dunkirk, N. Y. (25). 1883. F
Blake, Clarence J., M.D., 226 Marlborough St., Boston, Mass. (24). 1877. B F
Blake, Prof. Eli W., Brown Univ., Providence, R. I. (15). 1874. B
Blake, Francis, Auburndale, Mass. (23). 1874. B A
Blue, Archibald, Director of the Bureau of Mines, Toronto, Ontario, Can. (35). 1890. I
Boardman, Mrs. William D., 38 Kenilworth St., Roxbury, Mass. (28). 1885. E H
Boas, Dr. Franz, care Peabody Museum, Cambridge, Mass. (36). 1888. H
Boerner, Chas. G., Vevay, Switzerland Co., Ind. (29). 1886. A B E
Bolley, Henry L., North Dakota Exper. Station, Fargo, North Dakota (39). 1892. G
BOLTON, DR. H. CARRINGTON, University Club, New York, N. Y. (17). 1875. C
Bond, Geo. M., care of The Pratt & Whitney Co., Hartford, Conn. (33). 1885. D
Booth, Miss Mary A., Longmeadow, Mass. 1894. F I G
Bourke, John G., Capt. 3d Cavalry, U. S. A., War Dept., Washington, D. C. (33). 1885. H
BOUVÉ, THOS. T., Boston Soc. Nat. Hist., Boston, Mass. (1). 1875. E
Bowditch, Prof. H. P., Jamaica Plain, Mass. (28). 1880. F B H
Bowser, Prof. E. A., Rutgers College, New Brunswick, N. J. (28). 1881.
Brackett, Prof. C. F., College of New Jersey, Princeton, N. J. (19). 1875. B
Brackett, Richard N., Associate Prof. of Chemistry, Clemson Agric. College, Fort Hill, S. C. (37). C E
Bradford, Royal B., Commander U. S. N., care Navy Dept, Washington, D. C. (31). 1891. B D
Branner, Prof. John C., Stanford University, Cal. (34). 1886. E F
Brashear, Jno. A., Allegheny, Pa. (33). 1885. A B D
Brewer, Prof. Wm. H., New Haven, Conn. (20). 1875. E F I
Brinton, D. G., M.D., Media, Pa. (33). 1885. H
Bristol, Wm. H., Stevens Institute, Hoboken, N. J. (36). 1894. A B D
Britton, Dr. N. L., Columbia College, New York, N. Y. (29). 1882. G E
Broadhead, Prof. Garland Carr, University, Columbia, Mo. (27). 1879. E
Brooks, Wm. R., Box 714, Geneva, N. Y. (35). 1886. A B D G
Brown, Robert, care of Yale College Observatory, New Haven, Conn (11). 1874.
Brown, Mrs. Robert, New Haven, Conn. (17). 1874.
Brühl, Gustav, cor. John and Hopkins Sts., Cincinnati, Ohio (28). 1886. H
Brush, Charles F., Brush Electric Light Co., Cleveland, Ohio (35). 1886. B
BRUSH, PROF. GEORGE J., Yale College, New Haven, Conn. (4). 1874. C E
Buckhout, W. A., State College, Centre Co., Pa. (20). 1881. F
Burgess, Dr. Thomas J. W., Med. Sup't, Protestant Hospital for the Insane, Montreal, P. Q., Can. (38). 1889. G

Burr, Prof. William H., School of Mines, 41 East 49th St., New York, N. Y. (31). 1883.
Butler, A. W., Brookville, Franklin Co., Ind. (30). 1885. F H

Caldwell, Prof. Geo. C., Cornell University, Ithaca, N. Y. (23). 1875. C
Calvin, Prof. Samuel, State Univ. of Iowa, Iowa City, Iowa (37). 1889. E F
Campbell, Prof. Douglas H., Menlo Park, Cal. (34). 1888. G
Canby, William M., 1101 Delaware Avenue, Wilmington, Del. (17). 1878. G
Carhart, Prof. Henry S., University of Michigan, Ann Arbor, Mich. (29). 1881. B
Carleton, M. A., Dep't Agric., Div. of Vegetable Pathology, Washington, D. C. (42) 1894. G
Carpenter, Louis G., Agricultural College, Fort Collins, Col. (32). 1889. A B
Carpenter, Capt. W. L., U. S. A., care Adjutant General, Washington, D. C. (24). 1877. F E
Casey, Thomas L., 1419 K St., N. W., Washington, D. C. (38). 1892. F
Chamberlain, Alexander F., Clark Univ., Worcester, Mass. (38). 1890. H
Chamberlin, T. C., 5041 Madison Ave., Chicago, Ill. (21). 1877. E B F H
Chandler, Prof. C. F., School of Mines, Columbia Coll., East 49th St., cor. 4th Ave., New York, N. Y. (19). 1875. C
Chandler, Prof. Charles Henry, Ripon, Wis. (28). 1883. A B
Chandler, Seth C., jr., 16 Craigie St., Cambridge, Mass. (29). 1882. A
Chandler, Prof. W. H., South Bethlehem, Pa. (19). 1894. C
Chanute, O., 413 E. Huron St., Chicago, Ill. (17). 1877. D I
Charbonnier, Prof. L. H., University of Georgia, Athens, Ga. (26). 1894. A B D
Cheney, Lellen Sterling, 1081 W. Johnson St., Madison, Wis. (42). 1894. G
Chester, Prof. Albert H., Rutgers College, New Brunswick, N. J. (29). 1882. C F
Christie, James, Pencoyd, Pa. (33). 1894. D
Christy, Prof. Samuel B., Box 41, Berkeley, Cal. (35). 1894. D
Chute, Horatio N., Ann Arbor, Mich. (34). 1889. B C A
Clapp, Miss Cornelia M., Mt. Holyoke College, South Hadley, Mass. (31). 1883. F
Clark, Alvan G., Cambridgeport, Mass. (28). 1880. A B
Clark, Prof. John E., 445 Orange St., New Haven, Conn. (17). 1875. A
Clark, Wm. Bullock, Ph.D., Johns Hopkins Univ., Baltimore, Md. (37). 1891. E
Clarke, Prof. F. W., U. S. Geological Survey, Washington, D. C. (18). 1874. C
Claypole, Prof. Edw. W., 603 Buchtel Ave., Akron, Ohio (30). 1882. E F
Cloud, John W., 974 Rookery, Chicago, Ill. (28). 1886. A B D
Coffin, Prof. Selden J., Lafayette College, Easton, Pa. (22). 1874. A I

Cogswell, W. B., Syracuse, N. Y. (33). 1891. **D**
COLBURN, RICHARD T., Elizabeth, N. J. (31). 1894. **I F H**
Cole, Prof. Alfred D., Denison Univ., Granville, Ohio (39). 1891. **B C**
Collin, Prof. Alonzo, Cornell College, Mount Vernon, Iowa (21). 1891. **B C**
Collingwood, Francis, Elizabeth, N. J. (36). 1888. **D**
Colvin, Verplanck, Supt. N. Y. State Adirondack Survey, Albany, N. Y. (28). 1880. **E**
Comstock, Prof. Geo. C., Washburn Observ., Univ. of Wisconsin, Madison Wis. (34). 1887. **A**
Comstock, J. Henry, 48 East Ave., Ithaca, N. Y. (28). 1882. **F**
Comstock, Milton L., 641 Academy St., Galesburg, Ill. (21). 1874. **A**
Comstock, Prof. Theo. B., President Univ. of Arizona, Tucson, Arizona (24). 1877. **D E B**
Conant, Prof. L. L., Polytechnic Inst., Worcester, Mass. (39). 1892. **A**
Cook, Prof. A. J., Pomona College, Claremont, Cal. (24). 1880. **F**
Cook, Prof. Chas. Sumner, Santa Barbara, Cal. (36). 1889. **B**
Cook, Prof. Orator F., Huntington, N. Y. (40). 1892. **G**
Cooley, Prof. Le Roy C., Vassar College, Poughkeepsie, N. Y. (19). 1880. **B C**
Cooley, Prof. Mortimer E., Univ. of Michigan, Ann Arbor, Mich. (33). 1885. **D**
Cope, Prof. Edward D., 2102 Pine St., Philadelphia, Pa. (17). 1875. **F E**
Corthell, Elmer L., 71 Broadway, New York, N. Y. (34). 1886. **D**
Coulter, Prof. John M., Lake Forest, Ill. (32). 1884. **G**
Coville, Frederick V., Dept. of Agric., Washington, D. C. (35). 1890. **G**
Cox, Hon. Jacob D., Gilman Ave., Mt. Auburn, Cincinnati, Ohio (30). 1881. **F**
Coxe, Eckley B., Drifton, Luzerne Co., Pa. (23). 1879. **D E**
Cragin, Francis W., Colorado College, Colorado Springs, Col. (29). 1890. **F E H**
Craighill, Col. Wm. P., 9 Pleasant St., Baltimore, Md. (37). 1892. **D**
Crampton, Chas. A., M.D., Office of Internal Revenue, Treasury Department, Washington, D. C. (36). 1887. **C**
Crandall, Prof. Charles S., Fort Collins, Col. (40). 1894.
Crawford, Prof. Morris B., Middletown, Conn. (30). 1889. **B**
Crockett, Charles W., Rensselaer Polytechnic Inst., Troy, N. Y. (39). 1894. **A D**
Cross, Prof. Chas. R., Mass. Institute Technology, Boston, Mass. (29). 1880. **B**
Crozier, A. A., Ann Arbor, Mich. (36). 1891. **G**
Culin, Stewart, Univ. of Pa., Philadelphia, Pa. (33). 1890. **H**
Cummings, John, Cummingsville, Woburn, Mass. (18). 1890. **F**
Cushing, Frank H., Bureau of Ethnology, Washington, D. C. (40). 1893. **H**
Cushing, Henry Platt, Adelbert College, Cleveland, Ohio (33). 1888. **E**

Dall, William H., Smithsonian Institution, Washington, D. C. (18). 1874. **H F**

Dana, Edward Salisbury, New Haven, Conn. (23). 1875. B E
Dancy, Frank B., A.B., Old Dominion Guano Co. Norfolk, Va. (33). 1890. C
Daniel, John, Vanderbilt Univ., Nashville, Tenn. (38). 1894. B
Darton, Nelson H., U. S. Geol. Survey, Washington, D. C. (37). 1893.
Davidson, Prof. Geo., U. S. Coast and Geodetic Survey, San Francisco, Cal. (29). 1881. A B D
Davis, Wm. Morris, Cambridge, Mass. (33). 1885. E B
Dawson, Sir William, Principal McGill College, Montreal, Can. (10). 1875. E
Day, David F., Buffalo, N. Y. (35). 1887. G
Day, Fisk H., M.D., 309 Sycamore St., Lansing, Mich. (20). 1874. E H F
Dean, George W., P. O. Box 92, Fall River, Mass. (15). 1874. A
Denton, Prof. James E., Stevens Institute, Hoboken, N. J. (36). 1888. D B A
Derby, Orville A., San Paulo, Brazil, S. A. (39). 1890.
Dimmock, George, P. O. Box 15, Canobie Lake, N. H. (22). 1874. F
Dolbear, A. Emerson, Tufts College, Mass. (20). 1880. B
Doolittle, Prof. C. L., South Bethlehem, Pa. (25). 1885. A
Dorsey, George A., Ph.D. Peabody Museum, Cambridge, Mass. (39). 1892. H
Douglass, Andrew E., Amer. Mus. of Nat. Hist., Central Park, New York, N. Y. (31). 1885. H
Draper, Dan'l, Ph.D., Director N. Y. Meteorological Observatory, Central Park, 64th St., Fifth Avenue, New York, N. Y. (29). 1881. B D F A
Drown, Prof. Thos. M., Mass. Institute Technology, Boston, Mass. (29). 1881. C
Du Bois, Prof. Aug. J., New Haven, Conn. (30). 1882. A B D
Du Bois, Patterson, Ass't Editor S.S.T., 1031 Walnut St., Philadelphia, Pa. (33). 1887. H C I
Dudley, Charles B., Altoona, Pa. (23). 1882. C B D
Dudley, Wm. L., Prof. of Chemistry, Vanderbilt Univ., Nashville, Tenn. (28). 1881. C
Dudley, Prof. Wm. R., Leland Stanford jr. Univ., Palo Alto, Cal. (29). 1883. G
Dumble, E. T., Austin, Texas (37). 1891. E
Dunham, Edw. K., 338 East 26th St., New York, N. Y. (30). 1890.
Dunnington, Prof. F. P., University Station, Charlottesville, Va. (26). 1880. C
Dwight, Prof. William B., Vassar College, Poughkeepsie, N. Y. (30). 1882. E F

Eastman, Prof. J. R., U. S. Naval Observatory, Washington, D. C. (26). 1879. A
Eaton, Prof. James R., Liberty, Mo. (29). 1885. C B E

Eccles, Robert G., M.D., 191 Dean St., Brooklyn, N. Y. (31). 1894. **F C**
Eddy, Prof. H. T., Rose Polytechnic Inst., Terre Haute, Ind. (24). 1876. **A B D**
Edison, Thos. A., Orange, N. J. (27). 1878. **B**
Egleston, Prof. Thomas, 35 W. Washington Square, New York, N. Y. (27). 1879. **C D E**
Eimbeck, William, U. S. C. and G. Survey, Washington, D. C. (17). 1874. **A B D**
Elkin, William L., Yale Coll. Observ., New Haven, Conn. (33). 1885. **A**
Ely, Theo. N., Sup't Motive Power, Penn. R. R., Altoona, Pa. (29). 1886.
Emerson, Prof. Benjamin K., Amherst, Mass. (19). 1877. **E F**
Emerson, Prof. C. F., Box 499, Hanover, N. H. (22). 1874. **B A**
Emery, Albert H., Stamford, Conn. (29). 1884. **D B**
Emery, Charles E., Bennett Building, New York, N. Y. (34). 1886. **D B A**
Emmons, S. F., U. S. Geol. Survey, Washington, D. C. (26). 1879. **E**
Engelmann, George J., M.D., 3003 Locust St., St. Louis, Mo. (25). 1875. **F H**
Ernst, Carl W., 298 Commonwealth Ave., Boston, Mass. (23). 1874. **I H**
Eyerman, John, "Oakhurst," Easton, Pa. (33). 1889. **E C**

Fairbanks, Henry, Ph.D., St. Johnsbury, Vt. (14). 1874. **B D A**
Fairchild, David G., Dept. of Agric., Washington, D. C. (40). 1892. **G**
Fairchild, Prof. H. L., University of Rochester, Rochester, N. Y. (28). 1883. **E F**
Fanning, John T., Consulting Eng., Kasota Block, Minneapolis, Minn. (29). 1885. **D**
Fargis, Rev. Geo. A., Georgetown College, Georgetown, D. C. (40). 1892.
Farlow, Dr. W. G., 24 Quincy St., Cambridge, Mass. (20). 1875. **G**
Farquhar, Henry, Dep't of Agric., Washington, D. C. (33). 1886. **A I G B**
Fernow, Bernhard E., Chief of Forestry Division, Dep't of Agriculture, Washington, D. C. (31). 1887. **G I**
Firmstone, F., Easton, Pa. (33). 1887. **D**
Fiske, Thos. S., A.M., Ph.D., Columbia College, New York, N. Y. (38). 1891. **A**
Fitch, Edward H., Jefferson, Ashtabula Co., Ohio (11). 1874. **I E**
Fletcher, Miss Alice C., care Peabody Museum, Cambridge, Mass. (29). 1883. **H**
Fletcher, James, Dominion Entomologist, Experimental Farm, Ottawa, Ontario, Can. (31). 1883. **F**
Fletcher, Dr. Robert, Army Medical Museum, Washington, D. C. (29). 1881. **F H**
Flint, Albert S., Washburn Observ., Madison, Wis. (30). 1887. **A**
Flint, James M., Surgeon U. S. N., Smithsonian Institution, Washington, D. C. (28). 1882. **F**
Foote, Dr. A. E., 1224–28 N. 41st St., Philadelphia, Pa. (21). 1874. **E C**
Forbes, Prof. S. A., Univ. of Illinois, Champaign, Ill. (27). 1879. **F**
Ford, Prof. D. R., Elmira, N. Y. (41). 1894. **A B**

Fox, Oscar C., U. S. Patent Office, Washington, D. C. (36). 1891. **B D A**
Foye, Prof. J. C., Armour Institute, cor. 33d St. and Armour Ave., Chicago, Ill. (29). 1884. **C B**
Franklin, William S., Ames, Iowa (36). 1892.
FRAZER, DR. PERSIFOR, Drexel Building, Room 1042, Philadelphia, Pa. (24). 1879. **E C**
Frazier, Prof. B. W., The Lehigh University, So. Bethlehem, Pa. (24). 1882. **E C**
Frear, Wm., State College, Centre Co., Pa. (33). 1886. **C**
Freer, Prof. Paul C., Ann Arbor, Mich. (39). 1891. **C**
French, Prof. Thomas, jr., Ridgeway Ave., Avondale, Cincinnati, Ohio (30). 1883. **B**
Frisby, Prof. Edgar, U. S. N. Observ., Washington, D. C. (28). 1880. **A**
Frost, Edwin Brant, Hanover, N. H. (38). 1890. **A B**
Fuller, Andrew S., Ridgewood, Bergen Co., N. J. (24). 1882. **F**
Fuller, Prof. Homer T., Pres. Drury Coll., Springfield, Mo. (35). 1891. **C E**
Fulton, Robert B., Chancellor Univ. of Miss., Prof. of Physics and Astronomy, University, Miss. (21). 1887. **B A**

Gaffield, Thomas, 54 Allen St., Boston, Mass. (29). 1889. **C B**
Gage, Prof. Simon Henry, Ithaca, N. Y. (28). 1881. **F**
Galbraith, Prof. John, Toronto, Ontario, Can. (38). 1889.
Galloway, B. T.; Dep't of Agriculture, Washington, D. C. (37). 1890. **G**
Gibbs, Prof. J. Willard, New Haven, Conn. (33). 1885. **B**
Gilbert, G. K., U. S. Geol. Survey, Washington, D. C. (18). 1874. **E**
Gill, Adam Capen, Cornell Univ., Ithaca, N. Y. (38). 1894. **E**
Gill, Prof. Theo., Columbian Univ., Washington, D. C. (17). 1874. **F**
Gillette, Clarence P., Fort Collins, Col. (37). 1893.
Gillman, Henry, 183 Fort St., West, Detroit, Mich. (24). 1875. **H F**
Gilman, Daniel C., President Johns Hopkins University, Baltimore, Md. (10). 1875. **E H**
Glenn, William, 1348 Block St., Baltimore, Md. (33). 1893. **C**
Goessman, Prof. C. A., Mass. Agricultural College, Amherst, Mass. (18). 1875. **C**
Goff, E. S., 1113 University Ave., Madison, Wis. (35). 1889.
Gold, Theodore S., West Cornwall, Conn. (4). 1887. **B C**
Goldschmidt, S. A., Ph.D., 43 Sedgwick St., Brooklyn, N. Y. (24). 1880. **C E B**
Goldsmith, Edw., 658 No. 10th St., Philadelphia, Pa. (29). 1892. **C B**
Gooch, Frank A., Yale College, New Haven, Conn. (25). 1880. **C**
Goodale, Prof. G. L., Botanic Gardens, Cambridge, Mass. (18). 1875. **G**
Goode, G. Brown, Smithsonian Institution, Washington, D. C. (22). 1874.
Goodfellow, Edward, Ass't U. S. Coast and Geodetic Survey, Washington, D. C. (24). 1879. **A H**
Gould, Dr. B. A., Cambridge, Mass. (2). 1875. **A B**
GRANT, MRS. MARY J., 36 Division St., Danbury, Conn. (23). 1874. **A**

Grant, Ulysses S., Ph.D., Geol. Survey of Minnesota, Minneapolis, Minn. (39). 1893. **E**

Gratacap, L. P., Ph.B., 77th St. and 8th Ave., New York, N. Y. (27). 1884. **C E F**

Gray, Prof. Thomas, Terre Haute, Ind. (38). 1889.

Green, Arthur L., La Fayette, Ind. (33). 1888. **C**

GREEN, TRAILL, M.D., Easton, Pa. (1). 1874. **C F**

Griffith, Ezra H., 5656 Washington Ave., Chicago, Ill. (39). 1892. **B F**

Grimes, J. Stanley, Room 18, 115 Monroe St., care Newark Life Ins. Co., Chicago, Ill. (17). 1874. **E H**

Grinnell, George Bird, 40 Park Row, New York, N. Y. (25). 1885. **F E**

Griswold, Leon Stacy, 238 Boston St., Dorchester, Mass. (38). 1893. **E**

Hague, Arnold, U. S. Geol. Survey, Washington, D. C. (26). 1879.

Haines, Reuben, Haines and Chew St., Germantown, Philadelphia, Pa. (27). 1889. **C B**

Hale, Albert C., Ph.D., No. 551 Putnam Ave., Brooklyn, N. Y. (29). 1886. **C B**

Hale, Geo. E., Director of the Observatory, Univ. of Chicago, Chicago, Ill. (37). 1891. **A B C**

Hale, Horatio, Clinton, Ontario, Can. (30). 1882. **H**

Hale, William H., Ph.D., 40 First Place, Brooklyn, N. Y. (19). 1874. **I F H C B E A**

Hall, Prof. Asaph, 2715 N St., Georgetown, D. C. (25). 1877. **A**

Hall, Asaph, jr., Univ. of Mich., Ann Arbor, Mich. (38). 1890. **A**

Hall, Prof. C. W., 803 Univ. Ave. So., Minneapolis, Minn. (28). 1883. **E**

Hall, Prof. Edwin H., 5 Avon St., Cambridge, Mass. (29). 1881. **B**

Hall, Prof. Lyman B., Haverford College, Haverford, Pa. (31). 1884. **C**

Hallock, Dr. Wm., Columbia College, New York, N. Y. (40). 1893. **B E**

Hallowell, Miss Susan M., Wellesley Coll., Wellesley, Mass. (33). 1890. **G**

Halsted, Byron D., New Jersey Agricultural Experiment Station, New Brunswick, N. J. (29). 1883. **G**

Hambach, Dr. G., 1319 Lami St., St. Louis, Mo. (26). 1891. **F E**

HANAMAN, C. E., Troy, N. Y. (19). 1883. **F**

Hargitt, Prof. Charles W., Syracuse, N. Y. (38). 1891. **F**

HARKNESS, PROF. WILLIAM, U. S. N. Observatory, Washington, D. C. (26). 1878. **A B C D**

Harris, Gilbert D., Ithaca, N. Y. (37). 1893.

Harris, Uriah R., Lieutenant U. S. N., Columbus, Ind. (34). 1886. **A**

Hart, Edw., Ph.D., Easton, Pa. (33). 1885. **C**

Hasbrouck, Prof. I. E., 364 Carlton Ave., Brooklyn, N. Y. (23). 1874. **D A I**

HASTINGS, C. S., Sheffield Scientific School of Yale College, New Haven, Conn. (25). 1878. **B**

Hathaway, Prof. A. S., Rose Polytechnic Inst., Terre Haute, Ind. (41). 1893. **A**

Haupt, Prof. Lewis M., University of Pennsylvania, Philadelphia, Pa. (32). 1885. **I D E**

Haynes, Prof. Henry W., 239 Beacon St., Boston, Mass. (28). 1884. **H**
Heal, Wm. E., Marion, Ind. (39). 1891. **A**
Heitzmann, Dr. Charles, 39 W. 45th St., New York, N. Y. (36). 1890.
Hering, Rudolph, Civil and Sanitary Engineer, 277 Pearl St., New York, N. Y. (33). 1885. **D E I**
Hervey, Rev. A. B., President St. Lawrence University, Canton, N.Y. (22). 1879. **F**
Hilgard, Prof. E. W., University of California, Berkeley, Cal. (11). 1874. **C E B**
Hill, Robert Thomas, U. S. Geol. Survey, Washington, D. C. (36). 1889. **E**
Himes, Prof. Charles F., Carlisle, Pa. (29). 1882. **B C**
Hinrichs, Dr. Gustavus, 3132 Lafayette Ave., St. Louis, Mo. (17). 1874. **C B**
Hirschfelder, Chas. A., Vice Consul U. S. A., Toronto, Ontario, Can. (33). 1887. **H**
Hitchcock, Albert Spear, Manhattan, Kan. (39). 1892. **G**
Hitchcock, Prof. Charles H., Hanover, N. H. (11). 1874. **E**
Hobbs, William Herbert, Ph.D., Madison, Wis. (41). 1893. **E**
Hodges, N. D. C., 874 Broadway, New York, N. Y. (29) 1882. **B**
Hoffmann, Dr. Fred., "Rundschau," P. O. Box 1680, New York, N. Y. (28). 1881. **C F**
Holden, Prof. E. S., Mt. Hamilton, Cal. (23). 1875. **A**
Hollick, Arthur, Columbia College, New York, N. Y. (31). 1892. **G E**
Holm, Theodor, U. S. Natl. Museum, Washington, D. C. (40). 1892. **F**
Holmes, Prof. Jos. A., Chapel Hill, N. C. (33). 1887. **E F**
Holmes, Wm. H., Field Columbian Mus., Chicago, Ill. (30). 1883. **H**
Holway, E. W. D., Decorah, Iowa (33). 1890. **G**
Hosea, Lewis M., Johnston Building, Cincinnati, Ohio (30). 1883. **B H**
Hotchkiss, Major Jed., Staunton, Va. (31). 1883. **E H I**
Hough, Prof. G. W., Northwestern Univ., Evanston, Ill. (15). 1874. **A**
Hough, Walter, U. S. National Museum, Washington, D. C. (38). 1890.
Hovey, Rev. Horace C., 60 High St., Newburyport, Mass. (29). 1883. **E H**
Howard, Prof. Curtis C., 97 Jefferson Ave., Columbus, Ohio (38). 1892. **C**
Howard, Leland O., Dep't of Agric., Washington, D. C. (37). 1889. **F**
Howe, Charles S., Prof. of Mathematics, Case School of Applied Science, Cleveland, Ohio (34). 1891. **A**
Howe, Prof. Jas. Lewis, Washington and Lee Univ., Lexington, Va. (36). 1888. **C**
Howell, Edwin E., 612 17th St., N. W., Washington, D. C (25). 1891. **E**
Hubbard, Gardiner Greene, 1328 Conn. Ave., Washington, D. C. (40). 1893. **E**
Hulst, Rev. Geo. D., 15 Himrod St., Brooklyn, N. Y. (29). 1887. **F**
Humphreys, W. J., Johns Hopkins Univ., Baltimore, Md. (42). 1894. **B**
Hunt, Alfred E., 116 Water St., Pittsburgh, Pa. (35). 1891. **C D**
Hunt, George, 119 Prospect St., Providence, R. I. (9). 1874.

Hyatt, Prof. Alpheus, Natural History Society, Boston, Mass. (18). 1875. E
Hyde, Prof. E. W., Station D, Cincinnati, Ohio (25). 1881. A

Iddings, Joseph P., U. S. Geological Survey, Washington, D. C. (31). 1884. E
Irby, Prof. B., Raleigh, N. C. (37). 1891. F

Jack, John G., Jamaica Plain, Mass. (31). 1890. G
Jackson, Robert T., 33 Gloucester St., Boston, Mass. (37). 1890. F
Jacobus, David S., Stevens Institute, Hoboken, N. J. (36). 1889. D B A
Jacoby, Harold, Columbia College, New York, N. Y. (38). 1891. A
Jacoby, Henry S., in charge of Bridge Engineering and Graphics, College of Civil Eng., Cornell Univ., Ithaca, N. Y. (36). 1892. D
James, Jos. F., M.S., U. S. Dept. of Agric., Washington, D. C. (30). 1882. E G
Jastrow, Dr. Jos., Univ. of Wisconsin, Madison, Wis. (35). 1887. H F
Jayne, Horace F., 1826 Chestnut St., Philadelphia, Pa. (29). 1884. F H
Jeffries, B. Joy, M.D., 15 Chestnut St., Boston, Mass. (29). 1881. F H
Jenkins, Edw. H., Drawer 101, New Haven, Conn. (33). 1885. C
Jenkins, Prof. Oliver P., Leland Stanford jr. Univ., Menlo Park, Cal. (39). 1891. F
Jenks, Elisha T., Middleborough, Mass. (22). 1874. D
Jesup, Prof. Henry G., Dartmouth College, Hanover, N. H. (36). 1891. F
Jesup, Morris K., 44 Pine St., New York, N. Y. (29). 1891. I
Jewell, Theo. F., Commander U. S. Navy, Navy Yard, Washington, D. C. (25). 1882. B
Jillson, Dr. B. C., 6045 Bond St., Pittsburgh, Pa. (14). 1881. E H F
Johnson, John B., Washington Univ., St. Louis, Mo. (33). 1886. D
Johnson, Otis C., 52 Thayer St., Ann Arbor, Mich. (34). 1886. C
Jones, Lewis R., Burlington, Vt. (41). 1894. G
Jones, Prof. Marcus E., Salt Lake City, Utah (40). 1893.
Jordan, Prof. David S., Palo Alto, Menlo Park P. O., Cal. (31). 1883. F
Julien, A. A., New York Acad. of Sciences, New York, N. Y. (24). 1875. E C

Kedzie, Mrs. Nellie S., Manhattan, Kan. (34). 1890. I F
Kedzie, Prof. Robert C., Agricultural College, Mich. (29). 1881. C
Kellerman, Prof. William A., Ohio Univ., Columbus, Ohio (41). 1893. G
Kellicott, David S., Columbus, Ohio (31). 1883. F
Kemp, James F., School of Mines, Columbia College, New York, N. Y. (36). 1888. E
Kendall, Prof. E. Otis, 3826 Locust St., Philadelphia, Pa. (29). 1882. A
Kent, William, Passaic, N. J. (26). 1881. D I
Kershner, Prof. Jefferson E., Lancaster City, Pa. (29). 1883. A B
Kinealy, John H., Washington Univ., St. Louis, Mo. (36). 1891. D
King, F. H., Experiment Station, Madison, Wis. (32). 1892. E F

Kirkwood, Prof. Daniel, Arlington Ave., Riverside, Cal. (7). 1874. **A**
Klotz, Otto Julius, 437 Albert St., Ottawa, Ontario, Can. (38). 1889.
Knorr, Aug. E., 1109 14th St., N. W., Washington, D. C. (40). 1893. **C**
Knowlton, Frank H., U. S. National Museum, Washington, D. C. (33). 1893. **G E**
Kunz, G. F., care Messrs. Tiffany & Co., Union Square, New York, N. Y. (29). 1883. **E H C**

Lacoe, Ralph D., Pittston, Pa. (31). 1893. **E F**
Ladd, Prof. E. F., Agricultural Coll., Fargo, No. Dakota (36). 1889. **C**
Laflamme, Prof. J. C. K., Laval Univ., Quebec, Can. (29). 1887. **E B**
LaFlesche, Francis, Indian Bureau, Interior Dep't, Washington, D. C. (33). 1885. **H**
Lamb, Daniel S., M.D., 800 10th St., N. W., Washington, D. C. (40) 1894. **H**
Landreth, Olin H., Prof. of Civil Engineering, Union College, Schenectady, N. Y. (28). 1883. **D**
Langdon, Dr. F. W., 65 West 7th St., Cincinnati, Ohio (30). 1882. **F H**
Langley, Prof. S. P., Secretary Smithsonian Institution, Washington, D. C. (18). 1874. **A B**
Lanza, Prof. Gaetano, Mass. Institute of Technology, Boston, Mass. (29). 1882. **D A B**
Larkin, Edgar L., Director Knox College Observatory, Galesburg, Ill. (28). 1883. **A**
Lattimore, Prof. S. A., University of Rochester, Rochester, N. Y. (15). 1874. **C**
Laudy, Louis H., Ph.D., School of Mines, Columbia College, New York, N. Y. (28). 1890. **C**
Lawrence, George N., 45 E. 21st St., New York, N. Y. (7). 1877. **F**
Lazenby, Prof. Wm. R., Columbus, Ohio (30). 1882. **B I**
LeBrun, Mrs. Michel, 222 West 23d St., New York, N. Y. (35). 1892. **F**
LeConte, Prof. Joseph, Univ. of Cal., Berkeley, Cal. (29). 1881. **E F**
Ledoux, Albert R., Ph.D., 9 Cliff St., New York, N. Y. (26). 1881. **C**
Leeds, Prof. Albert R., Stevens Institute, Hoboken, N. J. (23). 1874. **C F**
Lefavour, Prof. Henry, Williams Coll., Williamstown, Mass. (42). 1894.
Lehmann, G. W., Ph.D., 412 East Lombard St., Baltimore, Md. (30). 1885. **C B**
Lennon, William H., Brockport, N. Y. (31). 1894. **G C**
Lesley, Prof. J. Peter, State Geologist of Pennsylvania, 1008 Clinton St., Philadelphia, Pa. (2). 1874. **E**
Leverett, Frank, Denmark, Iowa (37). 1891. **E**
Libbey, Prof. William, jr., Princeton, N. J. (29). 1887. **E F**
Lindahl, Josua, Ph.D., State Geologist, Springfield, Ill. (40). 1892. **F E**
Lindenthal, Gustav, C.E., 45 Cedar St., New York, N. Y. (37). 1891. **I**
Lintner, J. A., N. Y. State Entomologist, Room 27, Capitol, Albany, N. Y. (22). 1874. **F**

Lloyd, John Uri, Pharmaceutical Chemist, Court and Plum Sts., Cincinnati, Ohio (38). 1890. C F

Lloyd, Mrs. Rachel, Box 675, Lincoln, Neb. (31). 1889. C

Locy, Prof. Wm. A., Lake Forest, Ill. (34). 1890. F

Loeb, Morris, Ph.D., 37 E. 38th St., New York, N. Y. (36). 1889. C

Loud, Prof. Frank H., 1203 N. Tejon St., Colorado Springs, Col. (29). A B

Loughridge, Dr. R. H., Ass't Prof. Agric. Chem. and Agric. Geol., Univ. of California, Berkeley, Cal. (21). 1874. E C

Love, Edward G., 69 E. 54th St., New York, N. Y. (24). 1882. C

Low, Seth, Pres. Columbia Coll., New York, N. Y. (29). 1890.

Lyle, David Alexander, Captain Ordnance Dept. U. S. A., Ordnance Office, War Dept., Washington, D. C. (28). 1880. D

Lupton, Prof. N. T., Auburn, Lee Co., Ala. (17). 1874. C

Lyon, Dr. Henry, 34 Monument Sq., Charlestown, Mass. (18). 1874.

McAdie, Alexander George, U. S. Weather Bureau, Washington, D. C. (40). 1892. B

McBride, Prof. Thomas H., Iowa City, Iowa (38). 1890. G

McCauley, Capt. C. A. H., Ass't Q. M., U. S. A., Portland, Oregon (29). 1881.

McCreath, Andrew S., 223 Market St., Harrisburg, Pa. (33). 1889. C E

McDonnell, Prof. Henry B., College Park, Md. (40). 1893. C

McGee, Dr. Anita Newcomb, Bureau of American Ethnology, Washington, D. C. (37). 1892. H

McGee, W. J., Bureau of American Ethnology, Washington, D. C. (27) 1882. H E

McGill, John T., Ph.D., Vanderbilt Univ., Nashville, Tenn. (36). 1888. C

McGregory, Prof. J. F., Colgate Univ., Hamilton, N. Y. (35). 1892.

McGuire, Joseph D., Ellicott City, Md. (30). 1891. H

McMahon, James, Ithaca, N. Y. (36). 1891. A

MacMillan, Prof. Conway, Univ. of Minnesota, Minneapolis, Minn. (42). 1894. G

McMurtrie, William, 106 Wall St., New York, N. Y. (22). 1874. C

McNeill, Malcolm, Lake Forest, Ill. (32). 1885. A

McRae, Austin Lee, Univ. of Texas, Austin, Texas. (39). 1891. B

Mabery, Prof. C. F., Case School of Applied Science, Cleveland, Ohio (29). 1881. C

Macfarlane, Prof. A., Austin, Texas (34). 1886. B A

Macloskie, Prof. George, College of New Jersey, Princeton, N. J. (25). 1882. F

Magie, Prof. William F., College of New Jersey, Princeton, N. J. (35). 1887.

MANN, B. PICKMAN, 1918 Sunderland Place, Washington, D. C. (22). 1874. I F

Marcy, Oliver, LL.D., Evanston, Ill. (10). 1874. E

Mark, Prof. E. H., Louisville, Ky. (39). 1893. B

Marsh, Prof. C. Dwight, Ripon, Wis. (34). 1893. **F E**
MARSH, PROF. O. C., Yale College, New Haven, Conn. (15). 1874. **F H**
Martin, Artemas, U. S. Coast Survey, Washington, D. C. (38). 1890. **A**
Martin, Prof. Daniel S., 236 West 4th St., New York, N. Y. (23). 1879. **E F**
Martin, Miss Lillie J., Girl's High School, San Francisco, Cal. (32). 1886. **F C**
Martin, Prof. Wm. J., Davidson College, N. C. (31). 1884. **C E**
Marvin, C. F., Signal Office, Washington, D. C. (39). 1892. **B**
Marvin, Frank O., Univ. of Kansas, Lawrence, Kan. (35). 1894. **D**
Mason, Prof. Otis T., Nat'l Museum, Washington, D. C. (25). 1877. **H**
Mason, Dr. William P., Prof. Rensselaer Polytechnic Inst., Troy, N. Y. (31). 1886. **C**
Matthews, Dr. Washington, 1262 New Hampshire Ave., cor. 21st St., N. W., Washington, D. C. (37). 1888. **H**
Maxwell, Walter (40). 1892. **C**
Mayer, Prof. A. M., Stevens Inst. of Technology, Hoboken, N. J. (19). 1874.
Meehan, Thomas, Germantown, Pa. (17). 1875. **G**
Mees, Prof. Carl Leo, Rose Polytechnic Inst., Terre Haute, Ind. (24). 1876. **B C**
Mendenhall, Prof. T. C., President Worcester Polytechnic Institute, Worcester, Mass. (20). 1874. **B**
Mercer, H. C. Doylestown, Bucks Co., Pa. (41). 1893.
Merrill, Frederick J. H., Ph.D., Ass't Director New York State Museum, Albany, N. Y. (35). 1887. **E**
Merriman, C. C., 1910 Surf St., Lake View, Chicago, Ill. (29). 1880. **F**
Merriman, Prof. Mansfield, So. Bethlehem, Pa. (32). 1885. **A D**
Merritt, Ernest, Ithaca, N. Y. (33). 1890.
Metcalf, William, Pittsburgh, Pa. (33). 1894. **D**
Michael, Mrs. Helen Abbott, Torwood, Bonchurch, Isle of Wight, England (33). 1885. **C F**
Miles, Prof. Manly, Lansing, Mich. (29). 1890. **F I**
Miller, Wm. S., M.D., 923 W. Johnson St., Madison, Wis. (42). 1894. **F**
Mills, Wesley, Montreal, P. Q., Can. (31). 1886. **F H**
Millspaugh, C. F., M.D., Field Columbian Museum, Chicago, Ill. (40). 1892. **G**
Minot, Dr. Charles Sedgwick, Harvard Medical School, Back Bay, Boston, Mass. (28). 1880. **F**
Minot, Francis, M.D., 65 Marlborough St., Boston, Mass. (29). 1884.
Mixter, Prof. Wm. G., New Haven, Conn. (30). 1882. **C**
Moler, Geo. S., 106 University Ave., Ithaca, N. Y. (38). 1892.
Moody, Robert O., M.D., Fair Haven Heights, New Haven, Conn. (35). 1892. **F**
Mooney, James, Bureau of Ethnology, Washington, D. C. (38). 1890. **H**
Moore, E. Hastings, The Univ. of Chicago, Chicago, Ill. (39). 1891. **A**
Moore, Prof. J. W., M.D., Lafayette College, Easton, Pa. (22). 1874. **B D A**

Moore, Veranus A., M.D., Bureau of Animal Industry, Dept. of Agric., Washington, D. C. (40). 1892. **F**
Moorehead, Warren K., Xenia, Ohio (38). 1890. **H**
Moreland, Prof. S. T., Lexington, Va. (33). 1894. **B D**
Morley, Prof. Edward W., 23 Cutler St., Cleveland, Ohio (18). 1876. **C B E**
Morse, Prof. E. S., Salem, Mass. (18). 1874. **F H**
Morton, H., Stevens Institute Technology, Hoboken, N. J. (18). 1875. **B C**
Moser, Lieut. Comd'r Jeff. F., U. S. N., Hydrographic Inspector, C. and G. Survey, Washington, D. C. (28). 1889. **E**
Moses, Prof. Thomas F., Urbana University, Urbana, Ohio (25). 1883. **H F**
Munroe, Prof. C. E., Columbian Univ., Washington, D. C. (22). 1874. **C**
Murdoch, John, Rock, Plymouth Co., Mass. (29). 1886. **F H**
Murtfeldt, Miss Mary E., Kirkwood, Mo. (27). 1881. **F**
Myers, John A., Agric. Exper. Station, Morgantown, W. Va. (30). 1889. **C**

Nagle, Prof. James C., A. and M. Coll., College Station, Texas (40). 1893. **D B**
Nason, Frank L., 5 Union St., New Brunswick, N. J. (36). 1888. **E**
Nef, J. U., Univ. of Chicago, Chicago, Ill. (39). 1891. **C**
Nelson, Prof. A. B., Centre College, Danville, Ky. (30). 1882. **A B D**
Newcomb, Prof. S., Navy Dep't, Washington, D. C. (13). 1874. **A B**
Newell, F. H., U. S. Geol. Survey, Washington, D. C. (40). 1893.
Newell, William Wells, Editor Journal American Folk Lore, Cambridge, Mass. (41). 1893. **H**
Newton, Hubert A., New Haven, Conn. (6). 1874. **A**
Nichols, Ernest Fox, Hamilton, N. Y. (41). 1893. **B**
Nichols, E. L., Ph.D., Cornell Univ., Ithaca, N. Y. (28). 1881. **B C**
Nicholson, Prof. H. H., Box 675, Lincoln, Neb. (36). 1888.
Niles, Prof. W. H., Cambridge, Mass. (16). 1874.
Nipher, Prof. F. E., Washington Univ., St. Louis, Mo. (24). 1876. **B**
Norton, Prof. Thomas H., Univ. of Cincinnati, Cincinnati, Ohio (35). 1887. **C**
Noyes, Prof. Wm. A., Rose Polytechnic Inst., Terre Haute, Ind. (32). 1885. **C**
Nuttall, Mrs. Zelia, care Peabody Museum, Cambridge, Mass. (35). 1887. **H**
Nutting, Prof. Charles C., State Univ. of Iowa, Iowa City, Iowa (40). 1892. **F**

Ogden, Herbert G., U. S. Coast and G. Survey, Washington, D. C. (38). 1891. **E**
Ordway, Prof. John M., Tulane Univ., New Orleans, La. (9). 1875. **C**
Orndorff, Dr. William Ridgely, Cornell Univ., Ithaca, N. Y. (41). 1893. **C**
Orton, Prof. Edward, President Ohio Agricultural and Mechanical College, Columbus, Ohio (19). 1875. **E**

Osborn, Henry F., Columbia College, New York, N. Y. (29). 1883. F
Osborn, Herbert, Ames, Iowa (32). 1884. F
Osmond, Prof. I. Thornton, State College, Centre Co., Pa. (33). 1889. B A C

Packard, Dr. A. S., 115 Angell St., Providence, R. I. (16). 1875. F E
Paine, Cyrus F., 305 Ellwanger & Barry Building, Rochester, N. Y. (12). 1874. B A
Palfray, Hon. Charles W., Salem, Mass. (21). 1874.
Pammel, Prof. L. H., Iowa Agricultural College, Ames, Iowa (39). 1892.
Parke, John G., Gen. U. S. A., 16 Lafayette Square, Washington, D. C. (29). 1881. D
PARKHURST, HENRY M., 173 Gates Ave., Brooklyn, N. Y. (23). 1874. A
Patrick, Geo. E., Ames, Iowa (36). 1890. C
Patterson, Harry J., College Park, Prince George's Co., Md. (36). 1890. C
Paul, Prof. Henry M., U. S. Naval Observatory, Washington, D. C. (33). 1885. A B
Peabody, Selim H., 4200 Berkeley Ave., Chicago, Ill. (17). 1885. D B F
Peary, Robert E., C.E., U. S. N., United States Navy Yard, League Island, Philadelphia, Pa. (36). 1892. D
Pedrick, Wm. R., Lawrence, Mass. (22). 1875.
Peet, Rev. Stephen D., Good Hope, Ill. (24). 1881. H
Penrose, Dr. R. A. F., 1331 Spruce St., Philadelphia, Pa. (38). 1890. E
Perkins, Prof. George H., Burlington, Vt. (17). 1882. H F E
Peter, Alfred M., 171 Rose St., Lexington, Ky. (29). 1890. C
Peters, Edw. T., P. O. Box 265, Washington, D. C. (33). 1889. I
Pettee, Prof. Wm. H., 52 Thompson St., Ann Arbor, Mich. (24). 1875. E
Phillips, Prof. A. W., New Haven, Conn. (24). 1879.
Phillips, Prof. Francis C., 59 Sherman Ave., Allegheny, Pa. (36). 1889.
Phippen, Geo. D., Salem, Mass. (18). 1874. G
Pickering, Prof. E. C., Director of Observatory, Cambridge, Mass. (18). 1875. A B
Pilling, James C., Box 591, Washington, D. C. (28). 1882. F H I
Platt, Franklin, Ass't Geologist, 2nd Geol. Survey of Pa., 1319 Walnut St., Philadelphia, Pa. (27). 1882. E
Pohlman, Dr. Julius, Buffalo, N. Y. (32). 1884. E F
Porter, Thos. C., LL.D., Lafayette College, Easton, Pa. (33). 1887. G
Powell, Major J. W., Washington, D. C. (23). 1875. E H
Power, Prof. Frederick B., 225 Gregory Ave., Passaic, N. J. (31). 1887. C
Prentiss, Prof. A. N., Cornell Univ., Ithaca, N. Y. (35). 1887. G
Prentiss, D. Webster, M.D., 1101 14th St., N. W., Washington, D. C. (29). 1882. F
Prentiss, Robert W., Prof. of Mathematics and Astronomy, Rutgers College, New Brunswick, N. J. (40). 1891. A
Prescott, Prof. Albert B., Ann Arbor, Mich. (23). 1875. C
Prosser, Charles S., Prof. of Geology, Union Coll., Schenectady, N. Y. (33). 1891. E F

Pulsifer, Wm. H., Newton Centre, Mass. (26). 1879. **A H**

Pumpelly, Prof. Raphael, U. S. Geological Survey, Newport, R. I. (17). 1875. **E I**

Putnam, Prof. F. W., Curator Peabody Museum American Archæology and Ethnology, Cambridge, Mass.; Curator Dep't Anthropology, Amer. Museum Nat. Hist., Central Park, New York, N. Y.; (Address as Permanent Secretary A. A. A. S., Salem, Mass.) (10). 1874. **H**

Pynchon, Rev. T. R., Trinity College, Hartford, Conn. (23). 1875.

Rathbun, Richard, U. S. Nat'l Museum, Washington, D. C. (40). 1892. **F**

Rau, Eugene A., Bethlehem, Pa. (33). 1890. **G**

Raymond, Rossiter W., 13 Burling Slip, New York, N. Y. (15). 1875. **E I**

Rees, Prof. John K., Columbia College, New York, N. Y. (26). 1878. **A E B**

Reese, Charles L., The Citadel, Charleston, S. C. (39). 1892. **C**

Reese, Jacob, 400 Chestnut St., Philadelphia, Pa. (33). 1891. **D B**

Reid, Harry Fielding, Case School of Applied Science, Cleveland, Ohio, (36). 1893. **B**

Remsen, Prof. Ira, Johns Hopkins Univ., Baltimore, Md. (22). 1875. **C**

Rice, Prof. Wm. North, Wesleyan University, Middletown, Conn. (18). 1874. **E F**

Richards, Prof. Charles B., 137 Edwards St., New Haven, Conn. (33). 1885. **D**

Richards, Edgar, 1621 H St., Washington, D. C. (31). 1886. **C**

Richards, Prof. Robert H., Mass. Inst. Tech., Back Bay, Boston, Mass. (22). 1875. **D**

Richards, Mrs. Robert H., Prof. Mass. Inst. of Tech., Back Bay, Boston, Mass. (23). 1878. **C**

Richardson, Clifford, Central Power Station, W. & G. R. R. Co., 14th St. and Penn. Ave., Washington, D. C. (30). 1884. **C**

Ricketts, Prof. Palmer C., 17 1st St., Troy, N. Y. (33). 1887. **D A**

Ricketts, Prof. Pierre de Peyster, 104 John St., New York, N. Y. (26). 1880. **C D E**

Riley, Prof. C. V., Hon. Curator of Entomology, U. S. National Museum, Washington, D. C. (17). 1874. **F H I**

Risteen, Allen D., Hartford, Conn. (38). 1890. **A B D**

Ritchie, E. S., Newton Highlands, Mass. (10). 1877. **B**

Ritter, W. F. McK., P. O. Box 50, Milton, Pa. (40). 1893.

Robinson, Benjamin Lincoln, Curator Harvard Herbarium, Cambridge, Mass. (41). 1893. **G**

Robinson, Prof. Franklin C., Bowdoin College, Brunswick, Me. (29). 1889. **C D**

Robinson, Prof. S. W., 1353 Highland St., Columbus, Ohio (30). 1883. **D B A**

Rockwell, Gen. Alfred P., Manchester, Mass. (10). 1882. **E**

Rockwell, Chas. H., Box 293, Tarrytown, N. Y. (28). 1883. **A D**

Rockwood, Prof. Charles G., jr., College of New Jersey, Princeton, N. J. (20). 1874. **A E B D**

Rogers, Prof. W. A., Colby Univ., Waterville, Me. (15). 1875. **A B D**

Rominger, Dr. Carl, Ann Arbor, Mich. (21). 1879. **E**

Rood, Prof. O. N., Columbia College, New York, N. Y. (14). 1875. **B**

Rosa, Edward Bennett, Prof. of Physics, Wesleyan Univ., Middletown, Conn. (39). 1892. **A B**

Ross, Prof. Edward A., Stanford, Cal. (41). 1894. **I**

Ross, Waldo O., 1 Chestnut St., Boston, Mass. (29). 1882.

Rowland, Prof. Henry A., Baltimore, Md. (29). 1880. **B**

Rowlee, W. W., Cornell Univ., Ithaca, N. Y. (41). 1894. **G**

Runkle, Prof. J. D., Mass. Institute of Technology, Boston, Mass. (2). 1875. **A D**

Rusby, Henry H., M.D., College of Pharmacy, 211 E. 23d St., New York, N. Y. (36). 1890. **G**

Russell, H. L., Ph.D., Madison, Wis. (41). 1894.

Russell, I. C., Univ. of Mich., Ann Arbor, Mich. (25). 1882. **E**

Ryan, Harris J., Cornell Univ., Ithaca, N. Y. (38). 1890. **B**

Sadtler, Saml P., 1042 Drexel Building, Philadelphia, Pa. (22). 1875. **C**

Saegmuller, G. N., 132 Maryland Ave., S. W., Washington, D. C. (38). 1891. **A B**

Safford, Dr. James M., Nashville, Tenn. (6). 1875. **E C F**

Safford, Prof. Truman H., Williamstown, Mass. (41). 1892. **A**

Salisbury, Prof. R. D., Chicago Univ., Chicago, Ill. (37). 1890. **B E**

Salmon, Daniel E., Dep't of Agric., Washington, D. C. (31). 1885. **F**

Sampson, Commander W. T., U. S. N., Navy Dept., Washington, D. C. (25). 1881. **B A**

Saunders, William, Director Canadian Experimental Farms, Ottawa, Ontario, Can. (17). 1874. **F**

Saville, Marshall H., Ass't Curator Dep't Anthropology, Amer. Mus. Nat. Hist., Central Park, New York, N. Y. (39). 1892. **H**

SCHAEBERLE, J. M., Astronomer in the Lick Observatory, San José, Cal. (34). 1886. **A**

Schanck, Prof. J. Stillwell, Princeton, New Jersey (4). 1882. **C B H**

Schott, Charles A., U. S. Coast and Geodetic Survey Office, Washington, D. C. (8). 1874. **A**

Schweinitz, Dr. E. A. de, Dep't of Agriculture, Washington, D. C. (36). 1889. **C**

Schweitzer, Prof. Paul, State University of Missouri, Columbia, Mo. (24). 1877. **C B**

Scovell, M. A., Director Kentucky Agricultural Experiment Station, Lexington, Ky. (35). 1887.

Scribner, F. Lamson, Director Tenn. Agricultural Exper. Station, Knoxville, Tenn. (34). 1887. **G**

SCUDDER, SAMUEL H., Cambridge, Mass. (13). 1874. **F**

Seaman, W. H., Chemist, 1424 11th St. N. W., Washington, D. C. (23). 1874. C F
Searle, Prof. Geo. M., Catholic Univ., Washington, D. C. (39). 1891. A
See, Horace, 1 Broadway, New York, N. Y. (34). 1886. D
Seiler, Carl, M.D., 1346 Spruce St., Philadelphia, Pa. (29). 1882. F B
Seymour, Arthur Bliss, Cambridge, Mass. (36). 1890. G
Sharples, Stephen P., 13 Broad St., Boston, Mass. (29). 1884. C
Sheldon, Samuel, A.M., Ph.D., Polytechnic Inst., Brooklyn, N. Y. (42). 1894. B
Shelton, Prof. Edward M., Dep't of Agric., Brisbane, Queensland, Australia (32). 1892. F
Shimer, Porter W., E.M., Easton, Pa. (38). 1889. C
Shufeldt, Dr. R. W., Smithsonian Institution, Washington, D. C. (40). 1892. F
Shutt, Frank T., M.A., F.E.C., F.C.S., Chief Chemist Canadian Experimental Farm, Ottawa, Ontario, Can. (38). 1889. C
Sias, Solomon, M.D., Schoharie, Schoharie Co., N. Y. (10). 1874.
Sigsbee, Chas. D., Com'd'r U. S. N., U. S. Hydrographic Office, Washington, D. C. (28). 1882. D E
Silliman, Prof. Justus M., Lafayette Coll., Easton, Pa. (19). 1874. D E
Skinner, Aaron N., U. S. Naval Observ., Washington, D. C. (40). 1893. A
Skinner, Joseph J., Massachusetts Inst. Technology, Boston, Mass. (28). 1880. B
Smith, Alex., Ph.D., The Univ. of Chicago, Chicago, Ill. (40). 1892. C
Smith, Prof. Chas. J., 35 Adelbert St., Cleveland, Ohio (32). 1885. A B
Smith, Prof. Edgar F., Univ. of Penn., Philadelphia, Pa. (33). 1891. C
Smith, Edwin, Rockville, Montgomery Co., Md. (30). 1882. A B
Smith, Prof. Erastus G., Beloit College, Beloit, Wis. (34). 1887. C
Smith, Erwin F., Dep't of Agric., Washington, D. C. (34). 1890. G
Smith, Prof. Eugene A., University, Ala. (20). 1877. E C
Smith, James Perrin, Ph.D., Ass't Prof. of Paleontology, Leland Stanford Junior Univ., Palo Alto, Cal. (37). 1894. C E
Smith, John B., Professor of Entomology, Rutgers College, New Brunswick, N. J. (32). 1884. F
SMITH, QUINTIUS C., M.D., No. 617 Colo. St., Austin, Texas (26). 1881. F
Smith, Dr. Theobald, 41 Orchard St., Jamaica Plain, Mass. (35). 1887. F
Smock, Prof. John Conover, Trenton, N. J. (23). 1879. E
Smyth, C. H., jr., Clinton, N. Y. (38). 1894. E
Snow, Prof. Benj. W., Madison, Wis. (35). 1889. B
Snow, Julia W., La Salle, Ill. (39). 1892. F
Snyder, Henry, B.Sc., Miami Univ., Oxford, Ohio (30). 1888. B C
Snyder, Prof. Monroe B., High School Observatory, Philadelphia, Pa. (24). 1882. A B
Soule, R. H., Roanoke, Va. (33). 1886. D

Spencer, Prof. J. William, 1751 18th St., Washington, D. C. (28). 1882. E
Springer, Dr. Alfred, Box 621, Cincinnati, Ohio (24). 1880. C
Starr, Frederick, Ph.D., Prof. Univ. of Chicago, Chicago, Ill. (36). 1892. H E
Stearns, Robert E. C., Shaffer House, 525 Sand St., Los Angeles. Cal. (18). 1874. F
Stedman, Prof. John M., A. and M. Coll., Auburn, Ala. (40). 1892. F
Stejneger, Leonhard, Curator Dept. of Reptiles, National Museum, Washington, D. C. (40). 1892. F
STEPHENS, W. HUDSON, Lowville, N. Y. (18). 1874. E H
Sternberg, Col. George M., Surgeon U. S. A., Army Building, 39 Whitehall St., New York, N. Y. (24). 1880. F
Stevens, Prof. W. LeConte, Rensselaer Polytechnic Inst., Troy, N. Y. (29). 1882. B A C
Stevenson, Prof. John J., Univ. of New York, New York, N. Y. (36). 1888.
Stevenson, Mrs. Matilda C., Bureau of Ethnology, Washington, D. C. (41). 1893. H
Stiles, Dr. Chas. W., Dept. of Agric., Washington, D. C. (40). 1892. F
Stoddard, Prof. John T., Smith College, Northampton, Mass. (35). 1889. B C
Stokes, Henry Newlin, Ph.D., U. S. Geol. Survey, Washington, D. C. (38). 1891. C E
Stone, Ormond, Director Leander McCormick Observatory, University of Virginia, Va. (24). 1876. A
Stone, Prof. Winthrop E., Purdue Univ., La Fayette, Ind. (39). 1891. C
Story, Prof. Wm. E., Clark Univ., Worcester, Mass. (29). 1881. A
Stowell, Prof. T. B., Potsdam, N. Y. (28). 1885. F
Stuart, Prof. A. P. S., Lincoln, Nebraska (21). 1874. C
Sturgis, Wm. C., 384 Whitney Ave., New Haven, Conn. (40). 1892. G
Sturtevant, E. Lewis, M.D., So. Framingham, Mass. (29). 1882. G
Swift, Lewis, Ph.D., Warner Observatory, Rochester, N. Y. (29). 1882. A
Swingle, W. T., Eustis, Florida (40). 1892. G

Tainter, Charles Sumner, 1843 S, cor. 19th St., Washington, D. C. (29). 1881. B D A
Taylor, Thos., M.D., Department of Agriculture, Washington, D. C. (29). 1885. F C
Taylor, William B., Smithsonian Institution, Washington, D. C. (29). 1881. B A
Terry, Prof. N. M., U. S. Naval Acad., Annapolis, Md. (23). 1874. B
Thomas, Benj. F., Ph.D., State Univ., Columbus, Ohio (29). 1882. B A
Thomas, Prof. M. B., Crawfordsville, Ind. (41). 1894. G
Thompson, Joseph Osgood, Haverford College, Pa. (41). 1893.
Thomson, Elihu, Thomson-Houston Electric Co., Lynn, Mass. (37). 1888. B
Thomson, Wm., M.D., 1426 Walnut St., Philadelphia, Pa. (33). 1885. B
Thruston, Gates Phillips, Nashville, Tenn. (38). 1890. H

Thurston, Prof. R. H., Sibley College, Cornell University, Ithaca, N. Y. (23). 1875. D

Thwing, Charles B., Northwestern Univ., Evanston, Ill. (38). 1892. B

Tittmann, Otto H., U. S. Coast and Geodetic Survey Office, Washington, D. C. (24). 1888. A

Todd, Prof. David P., Director Lawrence Observ., Amherst College, Amherst, Mass. (27). 1881. A B D

Todd, Prof. James E., Vermillion, So. Dak. (22). 1886. E F

Townshend, Prof. N. S., Ohio State Univ., Columbus, Ohio (17). 1881. F H

Tracy, Sam'l M., Agricultural College, Miss. (27). 1881. G

Traphagen, Frank W., Ph.D., Bozeman, Montana (35). 1889. C F E

Trelease, Dr. Wm., Director Missouri Botanical Gardens, St. Louis, Mo. (39). 1891. G

Trimble, Prof. Henry, 145 No. 10th St., Philadelphia ,Pa. (34). 1889. C

Trumbull, Dr. J. Hammond, Hartford, Conn. (29). 1882. H

Tucker, Willis G., M.D., Albany Med. Coll., Albany, N. Y. (29). 1888. C

TUCKERMAN, ALFRED, Ph.D., 342 W. 57th St., New York, N. Y. (39). 1891. C

Tuttle, Prof. Albert H., Univ. of Virginia, Charlottesville, Va. (17). 1874. F

Twitchell, E., 10 Bellevue Ave., Mt. Auburn, Cincinnati, Ohio (39). 1891. C

Uhler, Philip R., 254 W. Hoffman St., Baltimore, Md. (19). 1874. F E

Uline, Edwin Burton, Lake Forest, Ill. (42). 1894. G

Underwood, Prof. Lucien M., De Pauw Univ., Greencastle, Ind. (33). 1885. G

Upham, Warren, Librarian Western Reserve Historical Society, Cleveland, Ohio. (25). 1880. E

Upton, Winslow, Brown Univ., Providence, R. I. (29). 1883. A

Van Dyck, Prof. Francis Cuyler, New Brunswick, N. J. (28). 1882. B C F

Van Hise, Charles R., Univ. of Wisconsin, Madison, Wis. (37). 1890.

Van Vleck, Prof. John M., Wesleyan Univ., Middletown, Conn. (23). 1875. A

Venable, Prof. F. P., Chapel Hill, N. C. (39). 1891. C

Vining, Edward P., care Chas. B. Griggs, Washington St., Brookline, Mass. (32). 1887. H

Vogdes, A. W., Capt., 5th Art'y, Alcatraz Island, San Francisco, Cal. (32). 1885. E F

Wadsworth, Prof. M. Edward, Ph.D., Director of the Michigan Mining School, State Geologist of Michigan, Houghton, Mich. (23). 1874. E

Waite, M. B., Dep't of Agric., Washington, D. C. (37). 1893. G

Walcott, Charles D., Director U. S. Geological Survey, Washington, D. C. (25). 1882. E F

Waldo, Prof., Clarence A., Greencastle, Ind. (37). 1889. A

Waldo, Leonard, S. D., Bridgeport, Conn. (28). 1880. A

Wallace, Wm., Ansonia, Conn. (28). 1882.
WALLER, E., School of Mines, Columbia College, New York, N. Y. (23). 1874.
Walmsley, W. H., 69 Washington St., Chicago, Ill. (28). 1883. F
Ward, Prof. Henry A., Rochester, N. Y. (13). 1875. F E H
Ward, Lester F., U. S. Geological Survey, Washington, D. C. (26). 1879. E G
Ward, Dr. R. H., 53 Fourth St., Troy, N. Y. (17). 1874. G F
Ward, Wm. E., Port Chester, N. Y. (36). 1889. D
Warder, Prof. Robert B., Howard Univ., Washington, D. C. (19). 1881. C B
Warner, Prof. A. G., Leland Stanford jr. Univ., Palo Alto, Cal. (38). 1892. I
WARNER, JAMES D., 199 Baltic St., Brooklyn, N. Y. (18). 1874. A B
Warner, Worcester R., 887 Case Ave., Cleveland, Ohio (33). 1888. A B D
Warren, Dr. Joseph W., Bryn Mawr Coll., Bryn Mawr, Pa. (31). 1886. F
Warren, Prof. S. Edward, Newton, Mass. (17). 1875. A–I
WATSON, PROF. WM., 107 Marlborough St., Boston, Mass. (12). 1884. A
Webb, Prof. J. Burkitt, Stevens Inst., Hoboken, N. J. (31). 1883. D B A
Weber, Prof. Henry A., Ohio State Univ., Columbus, Ohio (35). 1888. F
Webster, F. M., Wooster, Ohio (35). 1890. F
Webster, Prof. N. B., Vineland, N. J. (7). 1874. B C E
Weed, Clarence M., Durham, N. H. (38). 1890.
Wheeler, Prof. C. Gilbert, 143 Lake St., Chicago, Ill. (18). 1883. C E
Wheeler, Orlando B., Office Mo. River Com., 1515 Lucas Place, St. Louis, Mo. (24). 1882. A D
White, Prof. C. A., Le Droit Park, Washington, D. C. (17). 1875. E F
White, David, U. S. National Museum, Washington, D. C. (40). 1892. E F
White, Prof. H. C., Univ. of Georgia, Athens, Ga. (29). 1885. C
WHITE, PROF. I. C., Univ. of W. Va., Morgantown, W. Va. (25). 1882. E
Whiteaves, J. F., Geol. Survey, Ottawa, Ontario, Can. (31). 1887. E F
Whitfield, R. P., American Museum Natural History, 77th St. and 8th Avenue, New York, N. Y. (18). 1874. E F H
Whiting, Miss Sarah F., Wellesley College, Wellesley, Mass. (31). 1883. B A
Whitman, Prof. Frank P., Adelbert College, Cleveland, Ohio (33). 1885. A B
Wilbur, A. B., Middletown, N. Y. (23). 1874. E
Wiley, Prof. Harvey W., Dep't of Agric., Washington, D.C. (21). 1874. C
Williams, Benezette, 171 La Salle St., Chicago, Ill. (33). 1887. D
Williams, Charles H., M.D., C. B. and Q. Gen. Office, Adams St., Chicago, Ill. (22). 1874.
Williams, Prof. Edw. H., jr., 117 Church St., Bethlehem, Pa. (25). 1894. E D

Williams, Prof. Henry Shaler, Yale College, New Haven, Conn. (18). 1882. **E F**

Williams, Prof. Henry W., 15 Arlington St., Boston, Mass. (11). 1874. **H F**

Williams, Prof. Thos. A., Agricultural Coll., Brookings, So. Dak. (42). 1894. **G**

Willson, Prof. Frederick N., Princeton, N. J. (33). 1887. **A D**

Willson, Robert W., Cambridge, Mass. (30). 1890. **B A**

Wilson, Joseph M., Room 1036, Drexel Building, Philadelphia, Pa. (33). 1886. **D**

Wilson, Thomas, U. S. Nat'l Museum, Washington, D. C. (36). 1888. **H**

Wilson, Prof. William Powell, Dept. of Biology, Univ. of Pa., Philadelphia, Pa. (38). 1889. **G**

Winchell, Horace V., 1396 S. E. 7th St., Minneapolis, Minn. (34). 1890. **E G**

Winchell, Prof. N. H., Univ. of Minnesota, Minneapolis, Minn. (19). 1874. **F H**

Wing, Henry H., 3 Reservoir Ave., Ithaca, N. Y. (38). 1890.

Winlock, Wm. C., Smithsonian Institution, Washington, D. C. (33). 1885. **A B**

Winslow, Arthur, Geologist and Mining Expert, Rooms 411 and 412, Roe Building, 5th and Pine Sts., St. Louis, Mo. (37). 1889. **E**

Winterhalter, A. G., Lt. U. S. N., care Navy Dept., Washington, D. C. (37). 1893. **A**

Withers, Prof. W. A., Agric. and Mechanical College, Raleigh, N. C. (33). 1891. **C**

Witthaus, Dr. R. A., 303 W. 77th St., New York, N. Y. (35). 1890.

Wolff, Dr. J. E., 15 Story St., Cambridge, Mass. (36). 1894. **E**

Wood, Prof. De Volson, Hoboken, N. J. (29). 1881.

Woodbury, C. J. H., Amer. Bell Telephone Co., 125 Milk St., Boston, Mass. (29). 1884. **D**

Woodward, Prof. Calvin M., 1761 Missouri Ave., St. Louis, Mo. (32). 1884. **D A I**

Woodward, Prof. R. S., Columbia College, New York, N. Y. (33). 1885. **A B D**

Wormley, T. G., Univ. of Pennsylvania, Philadelphia, Pa. (20). 1878.

Worthen, W. E., 63 Bleeker St., New York, N. Y. (36). 1888. **D**

Wrampelmeier, Theo. J., Room 17, Appraiser's Building, San Francisco, Cal. (34). 1887. **C**

Wright, Prof. Albert A., Oberlin College, Oberlin, Ohio (24). 1880. **E F**

Wright, Prof. Arthur W., Yale Coll., New Haven, Conn. (14). 1874. **A B**

Wright, Carroll D., LL.D., Dep't of Labor, Washington, D. C. (41). 1894. **I**

Wright, Rev. Geo. F., Oberlin College, Oberlin, Ohio (29). 1882. **E**

Wright, Prof. Thos. W., Union College, Schenectady, N. Y. (36). 1889.

Würtele, Rev. Louis C., Acton Vale, P. Q., Can. (11). 1875. **E**

Youmans, Wm. Jay, M.D., Popular Science Monthly, 1-5 Bond St., New York, N. Y. (28). 1889. **F C**

Young, A. V. E., Northwestern Univ., Evanston, Ill. (33). 1886. **C B**

Young, C. A., Prof. of Astronomy, College of New Jersey, Princeton, N. J. (18). 1874. **A B D**

Zalinski, E. L., U. S. A., care U. S. Legation, Tokio, Japan. (36). 1891 **D**

Ziwet, Alexander, 44 Madison St., Ann Arbor, Mich. (38). 1890. **A**

[759 FELLOWS.]

SUMMARY.—PATRONS, 2; CORRESPONDING MEMBERS, 1; MEMBERS, 1050; HONORARY FELLOWS, 1; FELLOWS, 758; SURVIVING FOUNDERS, 7 (included in other lists). AUG. 12, 1895, TOTAL NUMBER OF MEMBERS OF THE ASSOCIATION, 1812.

DECEASED MEMBERS.

[Unless by special vote of the Council, the names of those only who are members of the Association at the *time of their decease* will be included in this list. Information of the date and place of birth and death, to fill blanks in this list, is requested by the Permanent Secretary.]

Abbe, George Waldo, New York, N. Y. (23). Born in Windham, Conn. Oct. 26, 1811. Died in New York, N. Y., Sept. 25, 1879.

Abert, John James, Washington, D. C. (1). Born in Shepherdstown, Va., Sept. 17, 1788. Died in Washington, D. C., Sept. 27, 1863.

Adams, Charles Baker, Amherst, Mass. (1). Born in Dorchester, Mass., Jan. 11, 1814. Died in St. Thomas, W. I., Jan. 19, 1853.

Adams, Edwin F., Charlestown, Mass. (18).

Adams, Samuel, Jacksonville, Ill. (18). Born Dec. 19, 1806. Died April 29, 1877.

Agassiz, Louis, Cambridge, Mass. (1). Born in Parish of Motier, Switzerland, May 28, 1807. Died in Cambridge, Mass., Dec. 14, 1873.

Ainsworth, J. G., Barre, Mass. (14).

Alexander, Stephen, Princeton, N. J. (1). Born Sept. 1, 1806. Died June 25, 1883.

Allen, Thomas, St. Louis, Mo. (27). Died April 8, 1882.

Allen, Zachariah, Providence, R. I. (1). Born in Providence, R. I., Sept. 15, 1795. Died March 17, 1882.

Allston, Robert Francis Withers, Georgetown, S. C. (3). Born in All Saints Parish, S. C., April 21, 1801. Died near Georgetown, S. C., April 7, 1864.

Alvord, Benjamin, Washington, D. C. (17). Born in Rutland, Vt., Aug. 18, 1813. Died Oct. 16, 1884.

Ames, Nathan P., Springfield, Mass. (1). Born in 1803. Died Apr. 23, 1847.

Andrews, Ebenezer Baldwin, Lancaster, Ohio (7). Born in Danbury, Conn., April 29, 1821. Died in Lancaster, Ohio, Aug. 14, 1880.

Anthony, Charles Hartshorn, Albany, N. Y. (6). Born in Troy, N. Y. June 4, 1812. Died in Albany, N. Y., May 21, 1874.

Antisell, Thomas, Washington, D. C. (33). Born in Dublin, Ireland Jan. 16, 1817. Died in Washington, D. C., June 14, 1893.

Appleton, Nathan, Boston, Mass. (1). Born in New Ipswich, N. H., Oct 6, 1779. Died July 14, 1861.

Armsby, James H., Albany, N. Y. (6). Born in Sutton, Mass., Dec. 31, 1810. Died in Albany, N. Y., Dec. 3, 1875.

Armstrong, John W., Fredonia, N. Y. (24).

Ashburner, Charles A., Pittsburgh, Pa. (31). Died Dec. 24, 1889.

Ashburner, Wm., San Francisco, Cal. (29). Born in Stockbridge, Mass., March, 1831. Died in San Francisco, Cal., April 20, 1887.

Atwater, Mrs. S. T., Chicago, Ill. (17). Born Aug. 8, 1812. Died April 11, 1878.

Aufrecht, Louis, Cincinnati, Ohio (30).

Baba, Tatui, New York, N. Y. (36).

Babbitt, Miss Franc E., Coldwater, Mich. (32). Died near Coldwater, Mich., July 6, 1891, aged 67.

Bache, Alexander Dallas, Washington, D. C. (1). Born in Philadelphia, Pa., July 19, 1806. Died at Newport, R. I., Feb. 17, 1867.

Bache, Franklin, Philadelphia, Pa. (1). Born in Philadelphia, Pa., Oct. 25, 1792. Died March 19, 1864.

Bailey, Jacob Whitman, West Point, N. Y. (1). Born in Auburn, Mass., April 29, 1811. Died in West Point, N. Y., Feb. 26, 1857.

Baird, Spencer Fullerton, Washington, D. C. (1). Born in Reading, Pa., Feb. 3, 1823. Died in Wood's Holl, Mass., Aug. 19, 1887.

Bardwell, F. W., Lawrence, Kan. (13). Died in 1878.

Barnard, F. A. P., New York, N. Y. (7). Born in Sheffield, Mass., May 5, 1809. Died in New York, April 27, 1889.

Barnard, John Gross, New York, N. Y. (14). Born in Sheffield, Mass., May 19, 1815. Died in Detroit, Mich., May 14, 1882.

Barrett, Dwight H., Baltimore, Md. (36). Died in March, 1889.

Barrett, Moses, Milwaukee, Wis. (21). Died in 1873.

Barry, Redmond, Melbourne, Australia (25). Born in Ballyclough, Co. Cork, Ireland, in 1813. Died in Melbourne, Nov. 23, 1880.

Bassett, Daniel A., Los Angeles, Cal. (29). Born Dec. 8, 1819. Died May 26, 1887.

Bassnett, Thomas, Jacksonville, Fla. (8). Born 1807. Died in Jacksonville, Fla., Feb. 16, 1886.

Batchelder, John Montgomery, Cambridge, Mass. (8). Born in New Ipswich, N. H., Oct. 13, 1811. Died in Cambridge, July 3, 1892.

Bayne, Herbert Andrew, Kingston, Ont., Can. (29). Born in Londonderry, Nova Scotia, Aug. 16, 1846. Died in Pictou, Can., Sept. 16, 1886.

Beach, J. Watson, Hartford, Conn. (23). Born Dec. 28, 1823. Died Mar. 16, 1887.

Beauregard, Gustave T., New Orleans, La. (30). Died Feb. 20, 1893, aged 75.

Beck, C. F., Philadelphia, Pa. (1).

Beck, Lewis Caleb, New Brunswick, N. J. (1). Born in Schenectady, N. Y., Oct. 4, 1798. Died April 20, 1853.

Beck, Theodoric Romeyn, Albany, N. Y. (1). Born in Schenectady, N. Y., Aug. 11, 1791. Died in Utica, N. Y., Nov. 19, 1855.

Beckwith, Henry C., Coleman's Station, N. Y. (29). Died July 12, 1885.

Belfrage, G. W., Clifton, Texas (29). Died Dec. 7, 1882.

Belknap, William B., Louisville, Ky. (29).

Bell, Samuel N., Manchester, N. H. (7). Born in Chester, N. H., March 25, 1829. Died in Manchester, N. H., Feb. 8, 1889.

Belt, Thomas, London, Eng. (27). Died Sept. 8, 1878.

Beman, Nathan Sidney Smith, Troy, N. Y. (6). Born in Canaan, N. Y., Nov. 26, 1785. Died in Carbondale, Ill., Aug. 6, 1871.

Benedict, George Wyllys, Burlington, Vt. (16). Born Jan. 11, 1796. Died Sept. 23, 1871.

Benjamin, Edmund Burke, New York, N. Y. (19). Born in East Bloomfield, N. Y., July 16, 1828. Died in New York, May 29, 1894.

Bicknell, Edwin, Boston, Mass. (18). Born in 1830. Died March 19, 1877.

Binney, Amos, Boston, Mass. (1). Born in Boston, Mass., Oct. 18, 1803. Died in Rome, Feb. 18, 1847.

Binney, John, Boston, Mass. (3).

Blackie, Geo. S., Nashville, Tenn. (26).

Blair, Henry W., Washington, D. C. (26). Died Dec. 15, 1884.

Blake, Eli Whitney, New Haven, Conn. (1). Born Jan. 27, 1795. Died Aug. 18, 1886.

Blake, Francis C., Mansfield Valley, Pa. (29). Died Feb. 21, 1891.

Blake, Homer Crane, New York, N. Y. (28). Born in Cleveland, Ohio, Feb. 1, 1822. Died in New York, N. Y., Jan. 20, 1880.

Blanding, William, ———, R. I. (1).

Blatchford, Thomas Wyndeatt, Troy, N. Y. (6). Born in Topham, Eng. in 1794. Died in Troy, N. Y., Jan. 7, 1866.

Blatchley, Miss S. L., New Haven, Conn. (19). Died March 13, 1873.

Boadle, John, Haddonfield, N. J. (20). Born in 1805. Died in July, 1878.

Bomford, George, Washington, D. C. (1). Born in New York, N. Y., 1780. Died in Boston, Mass., March 25, 1848.

Bowditch, Henry Ingersoll, Boston, Mass. (2). Born in Salem, Mass., Aug. 9, 1808. Died in Boston, Mass., Jan. 14, 1892.

Bowles, Miss Margaretta, Columbia, Tenn. (26). Died July, 1887.

Bowron, James, South Pittsburg, Tenn. (26). Died in Dec., 1877.

Bradley, Leverette, Jersey City, N. J. (15). Died in 1875.

Braithwaite, Jos., Chambly, C. W. (11).

Breckinridge, S. M., St. Louis, Mo. (27). Died May 28, 1891.

Briggs, Albert D., Springfield, Mass. (13). Died Feb. 20, 1881.

Briggs, Robert, Philadelphia, Pa. (29). Born May 18, 1822. Died July 24, 1882.

Brigham, Charles Henry, Ann Arbor, Mich. (17). Born in Boston, Mass., July 27, 1820. Died Feb. 19, 1879.

Brinsmade, Thomas C., Troy, N. Y. (6). Born in New Hartford, Conn., June 16, 1802. Died in Troy, N. Y., June 22, 1868.

Bronson, Henry, New Haven, Conn. (41). Born in Waterbury, Conn., Jan. 30, 1804. Died in New Haven, Nov. 26, 1893.

Broomall, John M., Media, Pa. (23). Died June, 1894.

Bross, William, Chicago, Ill. (7). Died in 1890.

Brown, Andrew, Natchez, Miss. (1).

Brown, Horace, Salem, Mass. (27). Died in July, 1883.

Buel, David, Jr., Troy, N. Y. (6). Born in Litchfield, Conn., Oct. 22, 1784. Died in Troy, N. Y. in 1860.

Bull, John, Washington, D. C. (31). Born Aug. 1, 1819. Died June 9, 1884.

Bulloch, Walter H., Chicago, Ill. (30).

Burbank, L. S., Woburn, Mass. (18).

Burgess, Edward, Boston, Mass. (22). Born in Barnstable, Mass., June 30, 1848. Died in Boston, July 12, 1891.

Burke, Joseph Chester, Middletown, Conn. (29). Died in 1885.

Burnap, George Washington, Baltimore, Md. (12). Born in Merrimack, N. H., Nov. 30, 1802. Died in Philadelphia, Pa., Sept. 8, 1859.

Burnett, Waldo Irving, Boston, Mass. (1). Born in Southborough, Mass., July 12, 1828. Died in Boston, Mass., July 1, 1854.

Butler, Thomas Belden, Norwalk, Conn. (10). Born Aug. 22, 1806. Died June 8, 1873.

Cairns, Frederick A., New York, N. Y. (27). Died in 1879.

Campbell, Mrs. Mary H., Crawfordsville, Ind. (22). Died Feb. 27, 1882

Carpenter, Thornton, Camden, S. C. (7).

Carpenter, William M., New Orleans, La. (1).

Carpmael, Charles, Toronto, Can. (31). Died Oct. 20, 1894.

Case, Leonard, Cleveland, Ohio (15). Born June 27, 1820. Died Jan. 5, 1880.

Case, William, Cleveland, Ohio (6).

Caswell, Alexis, Providence, R. I. (2). Born Jan. 29, 1799. Died in Providence, R. I., Jan. 8, 1877.

Chadbourne, Paul Ansel, Amherst, Mass. (10). Born in North Berwick, Me., Oct. 21, 1823. Died Feb. 23, 1883.

Chapin, J. H., Meriden, Conn. (33). Died in 1892.

Chapman, Nathaniel, Philadelphia, Pa. (1). Born in Alexandria Co., Va., May 28, 1780. Died July 1, 1853.

Chase, Pliny Earle, Haverford College, Pa. (18). Born in Worcester, Mass., Aug. 18, 1820.

Chase, Stephen, Hanover, N. H. (2). Born in 1813. Died Aug. 5, 1851.

Chauvenet, William, St. Louis, Mo. (1). Born May 24, 1819. Died Dec. 13, 1870.

Cheesman, Louis Montgomery, Hartford, Conn. (32). Born in 1858. Died in Jan., 1885.

Cheney, Miss Margaret S., Jamaica Plain, Mass. (29). Died in 1882.

Chevreul, Michel Eugène, Paris, France (35). Born in Angiers, France, Aug. 31, 1786. Died April 9, 1889.

Clapp, Asahel, New Albany, Ind. (1). Born Oct. 5, 1792. Died Dec. 15, 1862.

Clark, Henry James, Cambridge, Mass. (13). Born in Easton, Mass. June 22, 1826. Died in Amherst, Mass., July 1, 1873.

Clark, Joseph, Cincinnati, Ohio (5).

Clark, Patrick, Rahway, N. J. (33). Died March 5, 1887.

Clarke, A. B., Holyoke, Mass. (13).

Clarke, Charles S., Peoria, Ill. (34). Died Nov. 15, 1890.

Cleaveland, C. H., Cincinnati, Ohio (9).

Cleveland, A. B., Cambridge, Mass. (2).

Coakley, George W., Hempstead, L. I. (29). Born in 1814. Died Aug. 5, 189 .

Coffin, James Henry, Easton, Pa. (1). Born in Northampton, Mass., Sept. 6, 1806. Died Feb. 6, 1873.

Coffin, John H. C., Washington, D. C. (1). Born in Wiscasset, Maine. Sept. 14, 1815. Died in Washington, D. C., Jan. 8, 1890.

Coffinberry, Wright Lewis, Grand Rapids, Mich. (20). Born in Lancaster, Ohio, April 5, 1807. Died in Grand Rapids, Mich., March 26, 1889.

Colburn, E. M., Peoria, Ill. (33). Born in Rome, N. Y., Sept. 13, 1813. Died in Peoria, Ill., May 29, 1890.

Cole, Frederick, Montreal, Can. (31). Died in 1887.

Cole, Thomas, Salem, Mass. (1). Born Dec. 24, 1779. Died June 24, 1852.

Coleman, Henry, Boston, Mass. (1).

Collins, Frederick, Washington, D. C. (28). Born Dec. 5, 1842. Died Oct. 27, 1881.

Colman, Henry, Lynn, Mass. (25). Died Nov., 1893.

Conrad, Timothy Abbott, Philadelphia, Pa. (1). Born in New Jersey, June 21, 1803. Died Aug. 9, 1877.

Cook, George H., New Brunswick, N. J. (4). Born in Hanover, N. J., Jan. 5, 1818. Died in New Brunswick, N. J., Sept. 22, 1889.

Cooke, Caleb, Salem, Mass. (18). Born Feb. 15, 1838. Died June 5, 1880.

Cooper, William, Hoboken, N. J. (9). Died in 1864.

Cope, Mary S., Germantown, Pa. (33). Born in Germantown, Pa., July 13, 1853. Died in Germantown, Jan. 4, 1888.

Copes, Joseph S., New Orleans, La. (11). Born Dec. 9, 1811. Died March 1, 1885.

Corning, Erastus, Albany, N. Y. (6). Born in Norwich, Conn., Dec. 14, 1794. Died April 9, 1872.

Costin, M. P., Fordham, N. Y. (30). Died June 8, 1884.

Couper, James Hamilton, Darien, Ga. (1). Born March 5, 1794. Died July 3, 1866.

Coyrière-Pardo, E. Miriam, New York, N. Y. (36). Born in London, Eng., Sept. 2, 1845. Died in New York, N. Y., Feb. 6, 1893.

Cramp, John Mockett, Wolfville, N. S. (11). Born in Kent, England, July 25, 1796. Died Dec. 6, 1881.

Crehore, John D., Cleveland, Ohio (24).

Cresson, Hilborne T., Philadelphia, Pa. (39). Died in New York, N. Y. Sept. 6, 1894.

Crocker, Charles F., Lawrence, Mass. (22). Died in July, 1881.

Crocker, Miss Lucretia, Boston, Mass. (29). Died in 1886.

Crosby, Alpheus, Salem, Mass. (10). Born in Sandwich, N. H., Oct. 13, 1810. Died April 17, 1874.

Crosby, Thomas Russell, Hanover, N. H. (18). Born Oct. 22, 1816. Died March 1, 1872.

Crosier, Edward S., New Albany, Ind. (29). Died in June, 1891.

Croswell, Edwin, Albany, N. Y. (6). Born in Catskill, N. Y., May 29, 1797. Died June 13, 1871.

Crow, Wayman, St. Louis, Mo. (27). Born March 7, 1808. Died May 10, 1885.

Cummings, Joseph, Evanston, Ill. (13). Born in Falmouth, Me., March 3, 1817. Died in Evanston, Ill., May 7, 1890.

Curry, W. F., Geneva, N. Y. (11).

Curtis, George William, Staten Island, N. Y. (36). Born in Providence, R. I., Feb. 24, 1824. Died Aug. 31, 1892.

Curtis, Josiah, Washington, D. C. (18). Died Aug. 1, 1883.

Cutting, Hiram Adolphus, Lunenburgh, Vt. (17). Born in Concord, Vt., Dec. 23, 1832. Died in Lunenburgh, April 18, 1892.

Da Costa, Chas. M., New York, N. Y. (36). Died in 1890.

Dalrymple, Edwin Augustine, Baltimore, Md. (11). Born in Baltimore, Md., June 4, 1817. Died Oct. 30, 1881.

Dana, James Dwight, New Haven, Conn. (1). Born in Utica, N. Y., Feb. 12, 1813. Died in New Haven, Conn , April 14, 1895.

Danforth, Edward, Elmira, N. Y. (11). Died in Elmira, N. Y., June 13, 1888.

Davenport, H. W., Washington, D. C. (30).

Davis, I. Thomas, Washington, D. C. (40). Died Jan. 19, 1892.

Day, Austin G., New York, N. Y. (29). Died Dec. 28, 1889.

Dayton, Edwin A., Madrid, N. Y. (7). Born in 1827. Died June 24, 1873.

Dean, Amos, Albany, N. Y. (6). Born in Barnard, Vt., Jan. 16, 1803. Died Jan. 26, 1868.

Dearborn, George H. A. S., Roxbury, Mass. (1).

Dekay, James Ellsworth, New York, N. Y. (1). Born in New York, 1792, Died Nov. 21, 1851.

Delano, Joseph C., New Bedford, Mass. (5). Born Jan. 9, 1796. Died Oct. 16, 1886.

De Laski, John, Carver's Harbor, Me. (18).

Devereux, John Henry, Cleveland, Ohio (18). Born in Boston, Mass., April 5, 1832. Died in Cleveland, Ohio, March 17, 1886.

Dewey, Chester, Rochester, N. Y. (1). Born in Sheffield, Mass., Oct. 25, 1781. Died Dec. 15, 1867.

Dexter, G. M., Boston, Mass. (11).

Dickerson, Edward N., New York, N. Y. (36).

Dillingham, W. A. P., Augusta, Me. (17).

Dimmick, L. N., Santa Barbara, Cal. (29). Died May 31, 1884.

Dinwiddie, Hardaway H., College Station, Texas (32). Died Dec. 11, 1887.

Dinwiddie, Robert, New York, N. Y. (1). Born in Dumfries, Scotland, July 23, 1811. Died in New York, N. Y., July 12, 1888.

Dixwell, Geo. B., Boston, Mass. (29). Died April, 1885.

Doggett, George Newell, Chicago, Ill. (33). Born in Chicago, Ill., Dec. 19, 1858. Died in Fredericksburg, Va., Jan. 15, 1887.

Doggett, Mrs. Kate Newell, Chicago, Ill. (17). Born in Castleton, Vt., Nov. 5, 1828. Died in Havana, Cuba, March 13, 1884.

Doggett, Wm. E., Chicago, Ill. (17). Born Nov. 20, 1820. Died in 1876.

Doolittle, L., Lenoxville, C. E. (11). Died in 1862.

Dorand, Fred James, Chester, Vt. (38). Born in Rockingham, Vt., Dec. 6, 1856. Died in Aiken, S. C., April 17, 1893.

Dorr, Ebenezer Pearson, Buffalo, N. Y. (25). Born in Hartford, Vt. Died in Buffalo, N. Y., April 29, 1882.

Dorsey, J. Owen, Takoma Park, D. C. (31).

Dow, John Melmoth, New York, N. Y. (31). Died in New York, Nov. 4, 1892.

Dowling, John W., New York, N. Y. (36). Born in New York, Aug. 15, 1837. Died in Goshen, N. Y., Jan. 15, 1892.

Draper, Henry, New York, N. Y. (28). Born in New York, N. Y., March 7, 1837. Died Nov. 20, 1882.

Drowne, Charles, Canaan Four Corners, N. Y. (6). Born July 5, 1824. Died in 1888.

Ducatel, Julius Timoleon, Baltimore, Md. (1). Born in Baltimore, Md., June 6, 1798. Died April 25, 1849.

Duffield, George, Detroit, Mich. (10). Born in Strasburg, Pa., July 4, 1794. Died in Detroit, Mich., June 26, 1869.

Dumont, A. H., Newport, R. I. (14).

Dun, Walter Angus, Cincinnati, Ohio (31). Born March 1, 1857. Died Nov. 7, 1887.

Duncan, Lucius C., New Orleans, La. (10). Born in 1801. Died Aug. 9, 1855.

Dunn, Robinson P., Providence, R. I. (14). Born in Newport, R. I., May 31, 1825. Died in Newport, Aug. 28, 1867.

Dury, Henry M., Nashville, Tenn. (33). Died April 15, 1891.

Eads, James Buchanan, New York, N. Y. (27). Born May 23, 1820. Died March 8, 1887.

Easton, Norman, Fall River, Mass. (14). Died Dec. 21, 1872.

Eaton, D. G., Brooklyn, N. Y. (19). Born in Portland, Me., March 6, 1822. Died in Brooklyn, N. Y., March 18, 1895.

Eaton, James H., Beloit, Wis. (17). Died Jan. 5, 1877.

Elliott, Ezekiel Brown, Washington, D. C. (10). Born July 16, 1823. Died May 24, 1888.

Elsberg, Louis, New York, N. Y. (23). Born in Iserlohn, Prussia, April 2, 1836. Died in New York, N. Y., Feb. 19, 1885.

Elwyn, Alfred Langdon, Philadelphia, Pa. (1). Born in Portsmouth, N. H., July 9, 1804. Died in Philadelphia, Pa., March 15, 1884.

Ely, Charles Arthur, Elyria, Ohio (4).

Emerson, Geo. Barrell, Boston, Mass. (1). Born in Kennebunk, Me., Sept. 12, 1797. Died March 14, 1881.

Emmons, Ebenezer, Williamstown, Mass. (1). Born in Middlefield, Mass., May 16, 1799. Died Oct. 1, 1863.

Engelmann, George, St. Louis, Mo. (1). Born in Frankfort-on-the Main, Germany, Feb. 2, 1809. Died Feb. 4, 1884.

Engstrom, A. B., Burlington, N. J. (1).

Eustis, Henry Lawrence, Cambridge, Mass. (2). Born Feb. 1, 1819. Died Jan. 11, 1885.

Evans, Asher B., Lockport, N. Y. (19). Born in Hector, N. Y., Sept. 21, 1834. Died in Lockport, Sept. 24, 1891.

Evans, Edwin, Streator, Ill. (30). Died May 5, 1889.

Everett, Edward, Boston, Mass. (2) Born in Dorchester, Mass., April 11, 1794. Died in Boston, Mass., Jan. 15, 1865.

Ewing, Thomas, Lancaster, Ohio (5). Born in Ohio Co., Va., Dec. 28, 1789. Died Oct. 26, 1871.

Faries, R. J., Wauwatosa, Wis. (21). Died May 31, 1878.

Farmer, Moses G., Eliot, Me. (9). Died in Chicago, Ill., May 25, 1893.

Farnam, J. E., Georgetown, Ky. (26).

Farquharson, Robert James, Des Moines, Iowa (24). Born July 15, 1824. Died Sept. 6, 1884.

Felton, Samuel Morse, Philadelphia, Pa. (29). Born in Newbury, Mass., July 19, 1809. Died in Philadelphia, Pa., Jan. 24, 1889.

Ferrel, William, Kansas City, Mo. (11). Born in Bedford Co., Pa., Jan. 29, 1817. Died near Kansas City, Sept. 18, 1891.

Ferris, Isaac, New York, N. Y. (6). Born in New York, Oct. 9, 1798. Died in Roselle, N. J., June 16, 1873.

Feuchtwanger, Lewis, New York, N. Y. (11). Born in Fürth, Bavaria. Jan. 11, 1805. Died in New York, N. Y., June 25, 1876.

Ficklin, Joseph, Columbia, Mo. (20). Born in Winchester, Ky., Sept. 9 1833. Died in Columbia, Mo., Sept. 6, 1887.

Fillmore, Millard, Buffalo, N. Y. (7). Born in New York, Jan. 7, 1800. Died March 8, 1874.

Fisher, Mark, Trenton, N. J. (10).

Fitch, Alexander, Hartford, Conn. (1). Born March 25, 1799. Died Jan. 20, 1859.

Fitch, O. H., Ashtabula, Ohio (7). Born in 1803. Died Sept. 17, 1882.

Floyd, Richard S., San Francisco, Cal. (34). Died Oct. 17, 1890.

Foote, Herbert Carrington, Cleveland, Ohio (35). Born in 1852. Died in Cleveland, Aug. 24, 1888.

Forbush, E. B., Buffalo, N. Y. (15).

Force, Peter, Washington, D. C. (4). Born in New Jersey, Nov. 26, 1790. Died in Washington, D. C., Jan. 23, 1868.

Ford, A. C., Nashville, Tenn. (26).

Forshey, Caleb Goldsmith, New Orleans, La. (21). Born in Somerset Co., Pa., July 18, 1812. Died in Carrollton, La., July 25, 1881.

Foster, John Wells, Chicago, Ill. (1). Born in Brimfield, Mass., March 4, 1815. Died in Chicago, Ill., June 29, 1873.

Foucon, Felix, Madison, Wis. (18).

Fowle, Wm. Bentley, Boston, Mass. (1). Born in Boston, Mass., Oct. 17, 1795. Died Feb. 6, 1865.

Fox, Charles, Grosse Ile, Mich. (7).

Fox, Joseph G., Easton, Pa. (31). Born in Adams, N. Y., Sept. 7, 1833. Died in Easton, Pa., Dec. 27, 1889.

Frazer, John Fries, Phila., Pa. (1). Born July 8, 1812. Died Oct. 12, 1872.

Freeman, Spencer Hedden, Cleveland, Ohio (29). Born Oct. 3, 1855. Died Feb. 2, 1886.

French, John William, West Point, N. Y. (11). Born in Connecticut, about 1810. Died in West Point, N. Y., July 8, 1871.

Fristoe, E. T., Washington, D. C. (40).

Frothingham, Frederick, Milton, Mass. (11). Born in Montreal, P. Q., April 9, 1825. Died in Milton, March 19, 1891.

Fuller, H. Weld, Boston, Mass. (29). Died Aug. 14, 1889.

Garber, A. P., Columbia, Pa. (29). Died Aug. 26, 1881.

Gardiner, Frederic, Middletown, Conn. (23). Born in Gardiner, Me., Oct. 22, 1822. Died in Middletown, Conn., July 17, 1889.

Garrison, H. D., Chicago, Ill. (31). Died in Feb., 1891.

Gavit, John E., New York, N. Y. (1) Born in New York, Oct. 29, 1819. Died in Stockbridge, Mass., Aug. 25, 1874.

Gay, Martin, Boston, Mass. (1). Born in 1804. Died Jan. 12, 1850.

Genth, Friedrich Augustus, Philadelphia, Pa. (24). Born in Waechtersbach, Hesse Cassel, May 17, 1820. Died in Philadelphia, Pa., Feb. 2, 1892.

Gibbon, J. H., Charlotte, N. C. (3).

Gilbreth, Mary E., Brookline, Mass. (42). Born May 9, 1864. Died Aug. 8, 1894.

Gillespie, William Mitchell, Schenectady, N. Y. (10). Born in New York, N. Y., 1816. Died in New York, Jan. 1, 1868.

Gilmore, Robert, Baltimore, Md. (1).

Glazier, W. W., Key West, Fla. (29). Died Dec. 11, 1880.

Goldmark, J., New York, N. Y. (29). Died in April, 1882.

Gordon, William J., Cleveland, Ohio (29). Died Nov. 23, 1892.

Gould, Augustus Addison, Boston, Mass. (11). Born April 23, 1805. Died Sept. 15, 1866.

Gould, Benjamin Apthorp, Boston, Mass. (2). Born in Lancaster, Mass., June 15, 1787. Died Oct. 24, 1859.

Graham, James D., Washington, D. C. (1). Born in Virginia, 1799. Died in Boston, Mass., Dec. 28, 1865.

Gray, Alonzo, Brooklyn, N. Y. (13). Born in Townsend, Vt., Feb. 21, 1808. Died in Brooklyn, N. Y., March 10, 1860.

Gray, Asa, Cambridge, Mass. (1). Born in Paris, N. Y., Nov. 18, 1810. Died in Cambridge, Mass., Jan. 30, 1888.

Gray, James H., Springfield, Mass. (6).

Green, Everett Wilmer, Madison, N. J. (10). Born Oct. 5, 1834. Died in 1864.

Greene, Benjamin D., Boston, Mass. (1). Died Oct. 14, 1862, aged 68.

Greene, Benjamin Franklin, Troy, N. Y. (2). Born in Lebanon, N. H., Oct. 25, 1817.

Greene, Samuel, Woonsocket, R. I. (9). Died in 1868.

Greene, Thomas A., Milwaukee, Wis. (31).

Greer, James, Dayton, Ohio (20). Died in Feb., 1874.

Griffith, Robert Eglesfield, Philadelphia, Pa. (1). Born in Philadelphia, Pa., Feb 13, 1798. Died June 26, 1854.

Griswold, John Augustus, Troy, N. Y. (19). Born Nov. 11, 1818. Died Oct. 31, 1872.

Guest, William E., Ogdensburg, N. Y. (6).

Guyot, Arnold, Princeton, N. J. (1). Born Sept. 5, 1809. Died Feb. 8, 1884.

Habel, Louis, Northfield, Vt. (34).

Hackley, Charles William, New York, N. Y. (4). Born in Herkimer Co., N. Y., March 9, 1809. Died in New York, N. Y., January 10, 1861.

Hadley, George, Buffalo, N. Y. (6). Born June, 1813. Died Oct. 16, 1877.

Hagen, Hermann A., Cambridge, Mass. (17). Born in Konigsberg, Prussia, May 30, 1817. Died in Cambridge, Nov. 9, 1893.

Haldeman, Samuel Stehman, Chickies, Pa. (1). Born Aug. 12, 1812. Died Sept. 10, 1880.

Hale, Enoch, Boston, Mass (1). Born in Westhampton, Mass., Jan. 29, 1790. Died in Boston, Mass., Nov. 12, 1848.

Hall, Stanton L., Port Chester, N. Y. (36). Born in Pittsfield, Mass. 1842.

Hamilton, Jno. M., Coudersport, Pa. (33).

Hampson, Thomas, Washington, D. C. (33).

Hance, Ebenezer, Fallsington P. O., Pa. (7). Died in 1876.

Harding, Myron H., Lawrenceburg, Ind. (30). Died Sept., 1885.

Hare, Robert, Philadelphia, Pa. (1). Born in Philadelphia, Pa., Jan. 17, 1781. Died in Philadelphia, May 15, 1858.

Harger, Oscar, New Haven, Conn. (25). Born in Oxford, Conn., Jan. 12, 1843. Died in New Haven, Conn., Nov. 6, 1887.

Harlan, Joseph G., Haverford, Pa. (8).

Harlan, Richard, Philadelphia, Pa. (1). Born in Philadelphia, Pa., Sept. 19, 1796. Died in New Orleans, La., Sept. 30, 1843.

Harris, Geo. H., Rochester, N. Y. (35). Born in West Greece, N. Y., Dec. 29, 1843. Died in Dansville, N. Y., Oct. 5, 1893.

Harris, Thaddeus William, Cambridge, Mass. (1). Born in Dorchester, Mass., Nov. 12, 1795. Died in Cambridge, Mass., Jan. 16, 1856.

Harrison, A. M., Plymouth, Mass. (29).

Harrison, Benjamin Franklin, Wallingford, Conn. (11). Born April 19, 1811. Died April 23, 1886.

Harrison, Jos., jr., Philadelphia, Pa. (12). Born in Philadelphia, Pa., Sept. 20, 1810. Died in Philadelphia, March 27, 1874.

Hart, Simeon, Farmington, Conn. (1). Born Nov. 17, 1795. Died April 20, 1853.

Hartt, Charles Frederick, Ithaca, N. Y. (18). Born in Nova Scotia, Aug. 20, 1840. Died March 18, 1878.

Hastings, Charles W., Kansas City, Mo. (38). Died in Brooklyn, N. Y., Oct. 24, 1892.

Haven, Joseph, Chicago, Ill. (17). Born in Dennis, Mass., Jan. 4, 1816. Died May 23, 1874.

Hawes, George W., Washington, D. C. (23). Born Dec. 31, 1848. Died June 22, 1882.

Hayden, Ferdinand Vandeveer, Philadelphia, Pa. (29). Born in Westfield, Mass., Sept. 7, 1829. Died Dec. 22, 1887.

Hayden, Horace H., Baltimore, Md. (1). Born in Windsor, Conn., Oct. 13, 1769. Died in Baltimore, Md., Jan. 26, 1844.

Hayes, George E., Buffalo, N. Y. (15).

Hayward, James, Boston, Mass. (1). Born in Concord, Mass., June 12, 1786. Died in Boston, Mass., July 27, 1866.

Hazen, William Babcock, Washington, D. C. (30). Born in Hartford, Vt., Sept. 27, 1830. Died Jan. 16, 1887.

Hedrick, Benjamin Sherwood, Washington, D. C. (19). Born in Davidson Co., N. C., Feb. 13, 1827. Died in Washington, D. C., Sept. 2, 1886.

Heighway, A. E., Cincinnati, Ohio (29). Born Dec. 26, 1820. Died Jan. 24, 1888.

Hempstead, G. S. B., Portsmouth, Ohio (29). Born in 1795. Died July 9, 1883.

Hendricks, J. E., Des Moines, Iowa (29). Died June 8, 1893, aged 79.

Henry, Joseph, Washington, D. C. (1). Born in Albany, N. Y., Dec. 17, 1797. Died May 13, 1878.

Hickox, S. V. R., Chicago, Ill. (17). Died in 1872.

Hicks, William C., New York, N. Y. (34). Died in 1885.

Hilgard, Julius Erasmus, Washington, D. C. (4). Born in Zweibrücken, Bavaria, Jan. 7, 1825. Died in Washington, D. C., May 8, 1891.

Hilgard, Theodore Charles, St. Louis, Mo. (17). Born in Zweibrücken, Bavaria, Feb. 28, 1828. Died March 5, 1875.

Hill, Walter N., Chester, Pa. (29). Born Apr. 15, 1846. Died Mar. 29, 1884.

Hincks, William, Toronto, C. W. (11). Born in 1801. Died July, 1871.

Hitchcock, Edward, Amherst, Mass. (1). Born in Deerfield, Mass., May 24, 1793. Died Feb. 27, 1864.

Hoadley, John Chipman, Boston, Mass. (29). Born Dec. 10, 1818. Died Oct. 21, 1886.

Hobbs, A. C., Bridgeport, Conn. (28). Died in Nov., 1891.

Hockley, Thomas, Philadelphia, Pa. (33). Died March 12, 1892.

Hodgson, William Ballantyne, Savannah, Ga. (10). Born in Edinburgh, Scotland, in 1815.

Hogsett, John J., Danville, Ky. (39). Died Jan. 18, 1891.

Holbrook, John Edwards, Charleston, S. C. (1). Born in Beaufort, S. C., Dec. 30, 1796. Died in Norfolk, Mass., Sept. 8, 1871.

Holman, Mrs. S. W., Boston, Mass. (29). Died May 5, 1885.

Holmes, Edward J., Boston, Mass. (29). Died in July, 1884.

Holmes, Oliver Wendell, Boston, Mass. (29). Born in Cambridge, Mass., Aug. 29, 1809. Died in Boston, Oct. 7, 1894.

Homes, Henry A., Albany, N. Y. (11). Born in Boston, Mass., March 10, 1812. Died in Albany, N. Y., Nov. 3, 1887.

Hopkins, Albert, Williamstown, Mass. (19). Born July 14, 1807. Died May 25, 1872.

Hopkins, James G., Ogdensburg, N. Y. (10). Died in 1860.

Hopkins, T. O., Williamsville, N. Y. (10). Died in 1866.

Hopkins, Wm., Lima, N. Y. (5). Died in March, 1867.

Hoppock, Albert Eugene, Hastings-on-Hudson, N. Y. (29).

Horsford, Eben Norton, Cambridge, Mass. (1). Born in Moscow, N. Y., July 27, 1818. Died in Cambridge, Mass., Jan. 1, 1893.

Horton, C. V. R., Chaumont, N. Y. (10). Died in 1862.

Horton, Samuel Dana, Pomeroy, Ohio (37). Died in Feb. 1895.

Horton, William, Craigville, N. Y. (1).

Hosford, Benj. F., Haverhill, Mass. (13). Died in 1864.

Hough, Franklin Benjamin, Lowville, N. Y. (4). Born in Martinsburgh, N. Y., July 20, 1822. Died June 11, 1885.

Houghton, Douglas, Detroit, Mich. (1). Born in Troy, N. Y., Sept. 21, 1809. Died Oct. 13, 1845.

Hovey, Edmund O., Crawfordsville, Ind. (20). Born July 15, 1801. Died March 10, 1877.

Howland, Edward Perry, Washington, D. C. (29). Born in Ledyard, N. Y., July 20, 1825. Died in Harrisburg, Pa., Sept. 12, 1888.

Howland, Theodore, Buffalo, N. Y. (15).

Hoy, Philo Romayne, Racine, Wis. (17). Born in Richland, Ohio, Nov. 3, 1816. Died in Racine, Wis., Dec. 8, 1892.

Hubbert, James, Richmond, Province of Quebec (16). Died in 1868.

Hunt, Edward Bissell, Washington, D. C. (2). Born in Livingston Co., N. Y., June 15, 1822. Died in Brooklyn, N. Y., Oct. 2, 1863.

Hunt, Freeman, New York, N. Y. (11). Born in Quincy, Mass., March 21, 1804. Died in Brooklyn, N. Y., March 2, 1858.

Hunt, Thomas Sterry, New York, N. Y. (1). Born in Norwich, Conn., Sept. 5, 1826. Died in New York, N. Y., Feb. 12, 1892.

Husted, Nathaniel C., Tarrytown-on-Hudson, N. Y. (36). Died Nov. 19, 1891.

Hyatt, Theodore, Chester, Pa. (30).

Ives, Moses B., Providence, R. I. (9). Died in 1857.

Ives, Thomas P., Providence, R. I. (10).

Jackson, Charles Thomas, Boston, Mass. (1). Born in Plymouth, Mass., June 21, 1805. Died Aug. 28, 1880.

Jackson, Josiah, State College, Pa. (35). Died Oct. 10, 1893.

James, Thomas Potts, Cambridge, Mass. (22). Born Sept. 1, 1803. Died Feb. 22, 1882.

Jeffries, John Amory, Boston, Mass. (38). Born in Milton, Mass., Sept. 2, 1859. Died in Boston, Mass., March 26, 1892.

Jenks, John Whipple Potter, Middleborough, Mass. (2). Born in West Boylston, Mass., May 1, 1819. Died in Providence, R. I., Sept. 26, 1894.

Johnson, Hosmer A., Chicago, Ill. (17). Died in Chicago, Feb. 26, 1891.

Johnson, Walter Rogers, Washington, D. C. (1). Born in Leominster, Mass., June 21, 1794. Died April 26, 1852.

Johnson, William Schuyler, Washington, D. C. (31). Born Sept. 20, 1859. Died Oct. 6, 1883.

Jones, Catesby A. R., Washington, D. C. (8).

Jones, Henry A., Portland, Me. (29). Died Sept. 3, 1883.

Jones, James H., Boston, Mass. (28).

Jones, William S., Cleveland, Ohio (37).

Joy, Charles Arad, Stockbridge, Mass. (8). Born in Ludlowville, N. Y., Oct. 8, 1823. Died in Stockbridge, Mass., May 29, 1891.

Judd, Orange, New Haven, Conn. (4). Born near Niagara Falls, N. Y., July 26, 1822. Died in Evanston, Ill., Dec. 27, 1892.

Kedzie, W. K., Oberlin, Ohio (25). Born in Kalamazoo, Mich., July 5, 1851. Died in Lansing, Mich., Apr. 10, 1880.

Keely, George W., Waterville, Me. (1). Died in 1878.

Keep, N. C., Boston, Mass. (13). Died in March, 1875.

Kellogg, James H., Rochester, N. Y. (29). Died Dec. 6, 1891.

Kendall, H. D., Grand Rapids, Mich. (35). Died in Guarymas, Mexico, Jan. 28, 1891.

Kennicott, Robert, West Northfield, Ill. (12). Born Nov. 13, 1835. Died in 1866.

Kerr, Washington Caruthers, Raleigh, N. C. (10). Born May 24, 1827. Died Aug. 9, 1885.

Kidder, Henry Purkitt, Boston, Mass. (29). Born Jan. 8, 1823.. Died Jan. 28, 1886.

King, Mary B. Allen, Rochester, N. Y. (15). Born in Woodstock, Vt., Jan. 26, 1799. Died in Rochester, April 3, 1893.

King, Mitchell, Charleston, S. C. (3). Born in Scotland, June 8, 1783. Died Nov. 12, 1862.

Kirkpatrick, James A., Philadelphia, Pa. (7). Died June 3, 1886.

Kite, Thomas, Cincinnati, Ohio (5). Died Feb. 6, 1884.

Klippart, John H., Columbus, Ohio (17). Died October, 1878.

Knickerbocker, Charles, Chicago, Ill. (17). Died in 1873.

Knight, J. B., Philadelphia, Pa. (21). Died March 10, 1879.

Lacey, O. M., Crawfordsville, Ind. (39). Died Jan. 9, 1891.

Lacklan, R., Cincinnati, Ohio (11).

Lamb, Mrs. Martha J., New York, N. Y. (29). Born in Plainfield, Mass. Aug. 13, 1829. Died in New York, Jan., 2, 1893.

Lamborn, Robert H., New York, N. Y. (28). Born in Pa. in 1836. Died in New York, Jan. 14, 1895.

Lapham, Increase Allen, Milwaukee, Wis. (3). Born in Palmyra, N. Y., March 7, 1811. Died in Oconomowoc, Wis., Sept. 14, 1875.

Larkin, Ethan Pendleton, Alfred Centre, N. Y. (33). Born Sept. 20, 1829. Died Aug. 23, 1887.

LaRoche, Réné, Philadelphia, Pa. (12). Born in Philadelphia, Pa., 1795. Died in Philadelphia, Dec., 1872.

Lasel, Edward, Williamstown, Mass. (1). Born Jan. 21, 1809. Died Jan. 31, 1852.

Lawford, Frederick, Montreal, Canada (11). Died in 1866.

Lawrence, Edward, Charlestown, Mass. (18). Born June, 1810. Died Oct. 17, 1885.

Lea, Isaac, Philadelphia, Pa. (1). Born in Wilmington, Del., March 4, 1792. Died Dec. 8, 1886.

LeConte, John Lawrence, Philadelphia, Pa. (1). Born in New York, May 13, 1825. Died Nov. 15, 1883.

Lederer, Baron von, Washington, D. C. (1).

Lee, William, Washington, D. C. (29). Died March 2, 1893.

Leidy, Joseph, Philadelphia, Pa. (7). Born in Philadelphia, Sept. 9, 1823. Died in Philadelphia, April 30, 1891.

Leonard, Rensselaer, Mauch Chunk, Pa. (33). Born in Hancock, N. Y., April 12, 1821. Died in Mauch Chunk, Pa., Oct. 26, 1888.

Lewis, Elias, jr., Brooklyn, N. Y. (23). Died Feb. 3, 1894.

Lewis, Henry Carvill, Philadelphia, Pa. (26). Born in Philadelphia, Pa., Nov. 16, 1853. Died in Manchester, England, July 21, 1888.

Libbey, Joseph, Georgetown, D. C. (31). Died July 20, 1886.

Lieber, Oscar Montgomery, Columbia, S. C. (8). Born Sept. 8, 1830. Died June 27, 1862.

Liebig, G. A., Baltimore, Md. (30). Died in Dec., 1893.

Lilly, William, Mauch Chunk, Pa. (28). Born in Penn Yan, N. Y., June 3, 1821. Died in Mauch Chunk, Pa., Dec. 1, 1893.

Lincklaen, Ledyard, Cazenovia, N. Y. (1). Born in Cazenovia, N. Y., Oct. 17, 1820. Died April 25, 1864.

Linsley, James Harvey, Stafford, Conn. (1). Born in Northford, Conn., May 5, 1787. Died in Stratford, Conn., Dec. 26, 1843.

Lockwood, Moses B., Providence, R. I. (9). Died in 1872.

Lockwood, Samuel, Freehold, N. J. (18). Born in Mansfield, England, Jan. 20, 1819. Died Jan. 9, 1894, aged 75.

Logan, William Edmond, Montreal, Canada (1). Born in Montreal, Canada, April 23, 1798. Died in Wales, June 22, 1875.

Loiseau, Emile F., Brussels, Belgium (33). Died April 30, 1886.

Loomis, Elias, New Haven, Conn. (1). Born in Willington, Conn., Aug. 7, 1811. Died in New Haven, Conn., Aug. 15, 1889.

Loosey, Charles F., New York, N. Y. (12).

Lothrop, Joshua R., Buffalo, N. Y. (15).

Lovering, Joseph, Cambridge, Mass. (2). Born in Charlestown, Mass., Dec. 25, 1813. Died in Cambridge, Mass., Jan. 18, 1892.

Lowrie, J. R., Warriorsmark, Pa. (29). Died Dec. 10, 1885.

Lucas, Mrs. John, Philadelphia, Pa. (33). Died May 8, 1893.

Lull, Edward Phelps, Washington, D. C. (28). Born Feb. 20, 1836. Died March 5, 1887.

Lyford, Moses, Springfield, Mass. (22). Born in Mt. Vernon, Me., Jan. 31, 1816. Died in Portland, Me., Aug. 4, 1887.

Lyman, Chester Smith, New Haven, Conn. (4). Born in Manchester, Conn., Jan. 13, 1814. Died in New Haven, Conn., in 1889.

Lyon, Sidney S., Jeffersonville, Ind. (20). Born Aug. 4, 1808. Died June 24, 1872.

M'Conihe, Isaac, Troy, N. Y. (5). Born in Merrimac, N. H., Aug. 22, 1787. Died in Troy, N. Y., Nov. 1, 1867.

McCorkle, Spencer C., Washington, D. C. (33).

McCutchen, A. R., Atlanta, Ga. (25). Died Nov. 21, 1887.

McElrath, Thomas, New York, N. Y. (36). Born in Williamsport, Pa., May 1, 1807. Died in New York, N. Y., June 6, 1888.

McFadden, Thomas, Westerville, Ohio (30). Born Nov. 9, 1825. Died Nov. 9, 1883.

McFarland, Walter, New York, N. Y. (36). Died July 22, 1888.

MacGregor, Donald, Houston, Texas (33). Died in Oct., 1887.

McLachlan, J. S., Montreal, Can. (31).

McMahon, Mathew, Albany, N. Y. (11).

McNaughton, James, Albany, N. Y. (4). Born in Kenmore, Scotland, Dec. 10, 1796. Died in Paris, France, June 11, 1874.

McNaughton, Peter, Albany, N. Y. (10). Born in Kenmore, Scotland, Dec. 6, 1800. Died in Albany, N. Y., Dec. 19, 1875.

McNiel, John A., Binghamton, N. Y. (35). Died in Binghamton, Dec. 20, 1891, aged 75.

Maack, G. A., Cambridge, Mass. (18). Died in Aug., 1873.

Macfarlane, James, Towanda, Pa. (29). Died in 1885.

Mackintosh, James B., New York, N. Y. (27). Died in 1891.

Maffet, Wm. Ross, Wilkes Barre, Pa. (33). Died in June, 1890.

Mahan, Dennis Hart, West Point, N. Y. (9). Born in New York, N. Y., April 2, 1802. Died in New York, Sept. 16, 1871.

Mallery, Garrick, Washington, D. C. (26). Born in Wilkes Barre, Pa., 1831. Died in Washington, D. C., Oct. 24, 1894.

Mallory, Maitland L., Rochester, N. Y. (39). Died April 28, 1894.

March, Alden, Albany, N. Y. (4). Born in Sutton, Mass., Sept. 20, 1795. Died in Albany, N. Y., June 17, 1869.

Marler, George L., Montreal, Can. (31).

Marsh, Dexter, Greenfield, Mass. (1). Born in Montague, Mass., Aug. 22, 1806. Died in Greenfield, Mass., April 2, 1853.

Marsh, James E., Roxbury, Mass. (10).

Martin, Benjamin Nichols, New York, N. Y. (23). Born in Mount Holly, N. J., Oct. 20, 1816. Died in New York, N. Y., Dec. 26, 1883.

Martindale, Isaac C., Camden, N. J. (26). Died Jan. 3, 1893.

Mather, William Williams, Columbus, Ohio (1). Born in Brooklyn, Conn., May 24, 1804. Died in Columbus, Ohio, Feb. 27, 1859.

Maude, John B., St. Louis, Mo. (27). Died in April, 1879.

Maupin, S., Charlottesville, Va. (10).

May, Abigail Williams, Boston, Mass. (29). Born in Boston, April 21 1829. Died in Boston, Nov. 30, 1888.

Meade, George Gordon, Philadelphia, Pa. (15). Born Dec. 30, 1815. Died Nov. 6, 1872.

Meek, Fielding Bradford, Washington, D. C. (6). Born Dec. 10, 1817. Died Dec. 21, 1876.

Meigs, James Aitken, Philadelphia, Pa. (12). Born July 30, 1829. Died Nov. 9, 1879.

Metcalf, Caleb B., Worcester, Mass. (20). Died July 31, 1891.

Mills, Andrew G., Galveston, Texas (33). Died Feb. 2, 1894.

Minifie, Wm., Baltimore, Md. (12). Born Aug. 14, 1805. Died Oct. 24, 1880.

Mitchel, Ormsby MacKnight, Cincinnati, Ohio (3). Born in Union Co., Ky., July 28, 1810. Died in Beaufort, S. C., Oct. 30, 1862.

Mitchell, Miss Maria, Lynn, Mass. (4). Born in Nantucket, Mass., Aug. 1, 1818. Died in Lynn, 1889.

Mitchell, William, Poughkeepsie, N. Y. (2). Born in Nantucket, Mass., Dec. 20, 1791. Died in Poughkeepsie, N. Y., April 19, 1868.

Mitchell, Wm. H., Florence, Ala. (17).

Mitivier, M. M., Holyoke, Mass. (40). Died in July, 1892.

Monroe, Nathan, Bradford, Mass. (6). Born in Minot, Me., May 16, 1804. Died in Bradford, Mass., July 8, 1866.

Monroe, William, Concord, Mass. (18). Died April 27, 1877.

Monselise, Giulio, Milan, Italy (40). Died Dec. 18, 1894.

Moore, E. C., New York, N. Y. (30).

Morgan, Lewis Henry, Rochester, N. Y. (10). Born near Aurora, N. Y., Nov. 21, 1818. Died Dec. 17, 1881.

Morgan, Mrs. Mary E., Rochester, N. Y. (31). Died in 1884.

Morison, N. H., Baltimore, Md. (17). Born in 1815. Died Nov. 14, 1890.

Morong, Thomas, New York, N. Y. (35). Died in 1894.

Morris, John B., Nashville, Tenn. (26).

Morris, Wistar, Philadelphia, Pa. (33). Died March 23, 1891.

Morton, Samuel George, Philadelphia, Pa. (1). Born in Philadelphia, Pa., Jan. 26, 1799. Died in Philadelphia, May 15, 1851.

Mott, Alexander B., New York, N. Y. (36). Died Aug. 12, 1889.

Mudge, Benjamin Franklin, Manhattan, Kansas (25). Born in Orrington, Me,, Aug. 11, 1817. Died Nov. 21, 1879.

Muir, William, Montreal, Can. (31). Died July, 1885.

Mussey, William Heberdom, Cincinnati, Ohio (30). Born Sept. 30, 1818. Died Aug. 1, 1882.

Nagel, Herman, St. Louis, Mo. (30). Born in Tritzwalk, Germany, May 28, 1820. Died in St. Louis, Mo., Feb. 18, 1889.

Nason, Henry Bradford, Troy, N. Y. (13). Born in Foxboro, June 22, 1831. Died Jan. 1895.

Nettleton, Charles, New York, N. Y. (30). Born in Washington, Conn., Oct. 2, 1819. Died in New York, N. Y., May 5, 1892.

Newberry, J. S., New York, N. Y. (5). Died Dec., 1892.

Newland, John, Saratoga Springs, N. Y. (28). Died Jan. 18, 1880.

Newton, E. H., Cambridge, N. Y. (1).

Newton, John, Pensacola, Fla. (7). Born near Pittsburgh, Pa., April 22, 1814. Died in Pensacola, Nov. 25, 1893.

Nichols, Charles A., Providence, R. I. (17). Born Jan. 4, 1826. Died Oct. 20, 1877.

Nichols, William Ripley, Boston, Mass. (18). Born April 30, 1847. Died July 14, 1886.

Nicholson, Thomas, New Orleans, La. (21).

Nicollet, Jean Nicholas, Washington, D. C. (1). Born in Savoy, France, July 24, 1786. Died in Washington, D. C., Sept. 11, 1843.

Northrop, John I., New York, N. Y. (36). Died June 26, 1891.

Norton, John Pitkin, New Haven, Conn. (1). Born July 19, 1822. Died Sept. 5, 1852.

Norton, Lewis Mills, Boston, Mass. (29). Born in Athol, Mass., Dec. 26, 1855. Died in Auburndale, Mass., April 26, 1893.

Norton, William Augustus, New Haven, Conn. (6). Born in East Bloomfield, N. Y., Oct. 25, 1810. Died Sept. 21, 1883.

Noyes, James Oscar, New Orleans, La. (21). Born in Niles, N. Y., June 14, 1829. Died in New Orleans, La., Sept. 11, 1872.

Nutt, Cyrus, Bloomington, Ind. (20). Born in Trumbull Co., Ohio, Sept. 4, 1814. Died in Bloomington, Aug. 23, 1875.

Oakes, Wm., Ipswich, Mass. (1). Born July 1, 1799. Died July 31, 1848.

Ogden, Robert W., New Orleans, La. (21). Died March 24, 1878.

Ogden, William Butler, High Bridge, N. Y. (17). Born in New York, N. Y., 1805. Died in New York, Aug. 3, 1877.

Oliver, James Edward, Ithaca, N. Y. (7). Born in Portland, Me., July 27, 1829. Died in Ithaca, N. Y., March 27, 1895.

Oliver, Miss Mary E., Ithaca, N. Y. (20).

Olmsted, Alexander Fisher, New Haven, Conn. (4). Born Dec. 20, 1822. Died May 5, 1853.

Olmsted, Denison, New Haven, Conn. (1). Born in East Hartford, Conn., June 18, 1791. Died in New Haven, Conn., May 13, 1859.

Olmsted, Denison, jr., New Haven, Conn. (1). Born Feb. 16, 1824. Died Aug. 15, 1846.

Orton, James, Poughkeepsie, N. Y. (18). Born in Seneca Falls, N. Y., April 21, 1830. Died in Peru, S. A., Sept. 24, 1877.

Osbun, Isaac J., Salem, Mass. (29).

Otis, George Alexander, Washington, D. C. (10). Born in Boston, Mass., Nov. 12, 1830. Died Feb. 29, 1881.

Owen, Richard, New Harmony, Ind. (20). Born in Scotland, Jan. 6, 1810. Died in New Harmony, March 24, 1890.

Packer, Harry E., Mauch Chunk, Pa. (30). Died Feb. 1, 1884.

Painter, Jacob, Lima, Pa. (23). Died in 1876.

Painter, Minshall, Lima, Pa. (7).

Parker, Wilbur F., West Meriden, Conn. (23). Died in 1876.

Parkman, Samuel, Boston, Mass. (1). Born in 1816. Died Dec. 15, 1854.

Parry, Charles C., Davenport, Iowa (6). Born in Admington, Worcestershire, Eng., Aug. 28, 1823. Died in Davenport, Iowa, Feb. 20, 1890.

Parsons, Henry Betts, New York, N. Y. (30). Born Nov. 20, 1855. Died Aug. 21, 1885.

Payn, Charles H., Saratoga Springs, N. Y. (28). Born May 16, 1814. Died Dec. 20, 1881.

Pearson, H. G., New York, N. Y. (36).

Pease, F. S., Buffalo, N. Y. (35). Died Nov. 6, 1890.

Pease, Rufus D., Philadelphia, Pa. (33). Died in 1890.

Pedrick, Mrs. William R., Lawrence, Mass. (33). Born Feb. 7, 1832. Died in Lawrence, Jan. 21, 1894.

Peirce, Benjamin Osgood, Beverly, Mass. (18). Born in Beverly, Sept. 26, 1812. Died in Beverly, Nov. 12, 1883.

Peirce, Benjamin, Cambridge, Mass. (1). Born in Salem, Mass., April 4, 1809. Died in Cambridge, Mass., Oct. 6, 1880.

Perch, Bernard, Frankford, Pa. (35). Born in 1850. Died in 1887.

Perkins, George Roberts, Utica, N. Y. (1). Born in Otsego Co., N. Y., May 3, 1812. Died in New Hartford, N. Y., Aug. 22, 1876.

Perkins, Henry C., Newburyport, Mass. (18). Born Nov. 13, 1804. Died Feb. 2, 1873.

Perry, John B., Cambridge, Mass. (16). Born in 1820. Died Oct. 3, 1872.

Perry, Matthew Calbraith, New York, N. Y. (10). Born in South Kingston, R. I., 1795. Died in New York, March 4, 1858.

Peter, Robert, Lexington, Ky. (29). Born in Cornwall, Eng., Jan. 21, 1805. Died near Lexington, Ky., April 26, 1894.

Phelps, Mrs. Almira Hart Lincoln, Baltimore, Md. (13). Born in Berlin, Conn., July 15, 1793. Died in Berlin, July 15, 1884.

Philbrick, Edw. S., Brookline, Mass. (29). Born in Boston, Mass., Nov. 20, 1827. Died in Brookline, Mass., Feb. 13, 1889.

Phillips, Henry, jr., Philadelphia, Pa. (32). Born in Philadelphia, Pa., Sept. 6, 1833. Died in Philadelphia, Pa., June 6, 1895.

Phillips, John C., Boston, Mass. (29). Born in 1839. Died Mar. 1, 1885.

Piggot, A. Snowden, Baltimore, Md. (10).

Pim, Bedford Clapperton Trevelyan, London, Eng. (33). Born in England, June 12, 1826. Died Oct., 1886.

Platt, W. G., Philadelphia, Pa. (32). Died Nov., 1885.

Plumb, Ovid, Salisbury, Conn. (9).

Pope, Charles Alexander, St. Louis, Mo. (12). Born in Huntsville, Ala., March 15, 1818. Died in Paris, Mo., July 6, 1870.

Porter, John Addison, New Haven, Conn. (14). Born in Catskill, N. Y., March 15, 1822. Died in New Haven, Conn., Aug. 25, 1866.

Potter, Stephen H., Hamilton, Ohio (30). Born Nov. 10, 1812. Died Dec. 9, 1883.

Pourtalès, Louis François de, Cambridge, Mass. (1). Born March 4, 1824. Died July 19, 1880.

Pruyn, John Van Schaick Lansing, Albany, N. Y. (1). Born in Albany, N. Y., June 22, 1811. Died in Clifton Springs, N. Y., Nov. 21, 1877.

Pugh, Evan, Centre Co., Pa. (14). Born Feb. 29, 1828. Died April 29, 1864.

Pulsifer, Sidney, Philadelphia, Pa. (21). Died March 24, 1884.

Putnam, Mrs. Frederic Ward, Cambridge, Mass. (19). Born in Charlestown, Mass., Dec. 29, 1838. Died in Cambridge, Mass., March 10, 1879.

Putnam, J. Duncan, Davenport, Iowa (27). Born Oct. 18, 1855. Died Dec. 10, 1881.

Quincy, Edmund, Boston, Mass. (11). Died Jan. 6, 1894.

Rauch, John H., Springfield, Ill. (11). Died in Lebanon, Pa., 1894.

Read, Ezra, Terre Haute, Ind. (20). Died in 1877.

Redfield, John H., Philadelphia, Pa. (1). Born in Middletown, Conn. Died in Philadelphia, Pa., Feb. 27, 1895.

Redfield, William C., New York, N. Y. (1). Born near Middletown, Conn., March 26, 1789. Died Feb. 12, 1857.

Resor, Jacob, Cincinnati, Ohio (8). Died in 1871.

Reynolds, Sheldon, Wilkis Barre, Pa. (33). Born in Kingston, Pa., Feb. 22, 1845. Died at Saranac Lake, N. Y., Feb. 8, 1895.

Richardson, Tobias G., New Orleans, La. (30). Died in New Orleans, May 26, 1892. Aged 65 years.

Robb, James, Fredericton, N. B. (4).

Robinson, Coleman T., Buffalo, N. Y. (15). Born in Putnam Co., N. Y., in 1838. Died near Brewster's Station, N. Y., May 1, 1872.

Rochester, Thomas Fortescue, Buffalo, N. Y. (35). Born Oct. 8, 1823. Died May 24, 1887.

Rockwell, John Arnold, Norwich, Conn. (10). Born in Norwich, Conn., August 27, 1803. Died in Washington, D. C., February 10, 1861.

Roeder, F. A., Cincinnati, Ohio (30).

Rogers, Henry Darwin, Glasgow, Scotland (1). Born in Philadelphia, Pa., Aug. 1, 1808. Died in Glasgow, Scotland, May 29, 1866.

Rogers, James Blythe, Philadelphia, Pa. (1). Born in Philadelphia, Pa., Feb. 11, 1802. Died in Philadelphia, June 15, 1852.

Rogers, Robert Empie, Philadelphia, Pa. (18). Born in Baltimore, Md., March 29, 1813. Died Sept. 6, 1884.

Rogers, William Barton, Boston, Mass. (1). Born in Philadelphia, Pa., Dec. 7, 1804. Died in Boston, May 30, 1882.

Root, Elihu, Amherst, Mass. (25). Born Sept. 14, 1845.

Rutherford, Lewis M., New York, N. Y. (13). Born in Morrisania, N. Y., Nov. 25, 1816. Died in Tranquility, N. J., May 30, 1892.

Ryder, John Adams, Philadelphia, Pa. (33).

Sager, Abram, Ann Arbor, Mich. (6). Born in Bethlehem, N. Y., Dec. 22, 1811. Died in Ann Arbor, Mich., August 6, 1877.

Sanders, Benjamin D., Wellsburg, W. Va. (19).

Sawyers, Mrs. Alice M. S., Fort Worth, Texas (34). Died April 25, 1893.

Scammon, Jonathan Young, Chicago, Ill. (17). Born in Whitefield, Me., in 1812. Died in Chicago, Ill., March 17, 1890.

Schæffer, George C., Washington, D. C. (1). Died in 1873.
Scherzer, William, Chicago, Ill. (39). Died July 20, 1893.
Schimpff, Robert D., Scranton, Pa. (36).
Schley, William, New York, N. Y. (28). Died in 1882.
Schram, Nicholas Hallock, Newburgh, N. Y. (33). Died in Newburgh, N. Y., aged 54 years, 1 month and 2 days.
Schrenk, Joseph, Hoboken, N. J. (36).
Scott, Joseph, Dunham, C. E. (11). Died in 1865.
Seaman, Ezra Champion, Ann Arbor, Mich. (20). Born Oct. 14, 1805. Died July 15, 1880.
Senecal, L. A., Montreal, Can. (31).
Senter, Harvey S., Aledo, Ill. (20). Died in 1875.
Seward, William Henry, Auburn, N. Y. (1). Born in Florida, N. Y., May 16, 1801. Died in Auburn, N. Y., Oct. 10, 1872.
Seymour, William Pierce, Troy, N. Y. (19). Born in Troy, Oct. 17, 1825. Died in Troy, April 7, 1893.
Sheafer, Peter Wenrich, Pottsville, Pa. (4). Born in Halifax, Pa., March 31, 1819. Died in Brown's Mills in the Pines, N. J., March 26, 1891.
Sheppard, William, Drummondville, Province of Quebec, Can. (11). Born in 1783. Died in 1867.
Sherwin, Thomas, Dedham, Mass. (11). Born in Westmoreland, N. H., March 26, 1799. Died in Dedham, Mass., July 23, 1869.
Sill, Elisha N., Cuyahoga Falls, Ohio (6). Born in 1801. Died April 26, 1 88.
Silliman, Benjamin, New Haven, Conn. (1). Born in North Stratford, Conn., August 8, 1779. Died in New Haven, Conn., Nov. 22, 1864.
Silliman, Benjamin, New Haven, Conn. (1). Born in New Haven, Conn., Dec. 4, 1816. Died Jan. 14, 1885.
Simpson, Edward, Washington, D. C. (28). Born in New York, N. Y., March 3, 1824. Died in Washington, D. C., Dec. 1, 1888.
Skilton, Avery Judd, Troy, N. Y. (6). Born in Watertown, Conn., Feb. 1, 1802. Died in Troy, N. Y., March 20, 1858.
Skinner, George, Kalida, Ohio (33).
Skinner, John B., Buffalo, N. Y. (15). Died in 1871.
Slack, J. H., Philadelphia, Pa. (12).
Smith, Charles A., St. Louis, Mo. (27). Died in 1884.
Smith, David P., Springfield, Mass. (29). Born Oct. 1, 1830. Died Dec. 26, 1880.
Smith, Mrs. Erminnie Adelle, Jersey City, N. J. (25). Born April 26, 1836. Died June 9, 1886.
Smith, John Lawrence, Louisville, Ky. (1). Born near Charleston, S. C., Dec. 17, 1818. Died Oct. 12, 1883.
Smith, J. V., Cincinnati, Ohio (5).
Smith, James Young, Providence, R. I. (9). Born in Groton, Conn., Sept, 15, 1809. Died March 26, 1876.
Smith, Lyndon Arnold, Newark, N. J. (9). Born in Haverhill, N. H., November 11, 1795. Died in Newark, N. J., December 15, 1865.

Smucker, Isaac, Newark, Ohio (29).

Snell, Ebenezer Strong, Amherst, Mass. (2). Born in North Brookfield, Mass., October 7, 1801. Died in Amherst, Mass., Sept., 1877.

Sparks, Jared, Cambridge, Mass. (2). Born in Willington, Conn., May 10, 1819. Died in Cambridge, Mass., March 14, 1866.

Spinzig, Charles, St. Louis, Mo. (27). Died Jan. 22, 1882.

Squier, Ephraim George, New York, N. Y. (18). Born in Bethlehem, N. Y., June 17, 1821. Died in Brooklyn, N. Y., Apr. 17, 1888.

Stearns, Josiah A., Boston, Mass. (29).

Stearns, Silas, Pensacola, Fla. (28). Died Aug. 2, 1888.

Steele, Joel Dorman, Elmira, N. Y. (33). Born in Lima, N. Y., May 14, 1836. Died May 25, 1886.

Steiner, Lewis H., Baltimore, Md. (7). Born in Frederick City, Md., in 1827. Died in Baltimore, April, 1892.

Stevenson, James, Washington, D. C. (29). Born in Maysville, Ky., Dec. 24, 1840. Died in New York, N. Y., July 25, 1888.

Stimpson, Wm., Chicago, Ill. (12). Born Feb. 14, 1832. Died May 26, 1872.

Stone, Leander, Chicago, Ill. (32). Died April 2, 1888.

Stone, Samuel, Chicago, Ill. (17). Born Dec. 6, 1798. Died May 4, 1876.

St. John, Joseph S., Albany, N. Y. (28). Died Nov. 23, 1882.

Straight, H. H., Chicago, Ill. (25). Died Nov. 17, 1886.

Sturges, George, Chicago, Ill. (37). Born at Putnam, Ohio, May 13, 1838. Died at Lake Geneva, Wis., Aug. 12, 1890.

Sullivan, Algernon Sidney, New York, N. Y. (36). Born April 5, 1826. Died Dec. 4, 1887.

Sullivant, William Starling, Columbus, Ohio (7). Born near Columbus, O., Jan. 15, 1803. Died in Columbus, O., Apr. 30, 1873.

Sutton, George, Aurora, Ind. (20). Died June 13, 1886.

Swain, James, Fort Dodge, Iowa (21). Born in 1816. Died in 1877.

Swinburne, John, Albany, N. Y. (6). Born in Denmark, N. Y., May 30, 1820. Died in Albany, N. Y., March 28, 1889.

Tallmadge, James, New York, N. Y. (1). Born in Stamford, N. Y., Jan. 20, 1778. Died in New York, N. Y., Oct. 3, 1853.

Taylor, Arthur F., Cleveland, Ohio (29). Born Dec. 10, 1853. Died June 28, 1883.

Taylor, Richard Cowling, Philadelphia, Pa. (1). Born in England, Jan. 18, 1789. Died in Philadelphia, Pa., November 26, 1851.

Taylor, Robert N., Tollesboro, Ky. (37). Died Aug. 13, 1888.

Tenney, Sanborn, Williamstown, Mass. (17). Born in January, 1827. Died July 11, 1877.

Teschemacher, James Englehert, Boston, Mass. (1). Born in Nottingham, England, June 11, 1790. Died near Boston, Nov. 9, 1853.

Thompson, A. Remsen, New York, N. Y. (1). Died in Oct., 1879.

Thompson, Alexander, Aurora, N. Y. (1).

Thompson, Charles Oliver, Terre Haute, Ind. (29). Born in East Windsor Hill, Conn., Sept. 25, 1835. Died in Terre Haute, Ind., March 17, 1885.

Thompson, Harvey M., Oakland, Cal. (17).

Thompson, Zadock, Burlington, Vt. (1). Born in Bridgewater, Vt., May 23, 1796. Died in Burlington, Vt., Jan. 19, 1856.

Thomson, Henry R., Crawfordsville, Ind. (30). Died in 1884.

Thorn, James, Troy, N. Y. (10). Born in Colchester, Eng. July 20, 1802.

Thurber, Isaac, Providence, R. I. (9).

Tileman, John Nicholas, Sandy, Utah (33). Born in Horhun, Denmark, March 28, 1845. Died in Salt Lake City, Utah, Sept. 4, 1888.

Tillman, Samuel Dyer, Jersey City, N. J. (15). Born April, 1815. Died Sept. 4, 1875.

Tobin, Thomas W., Louisville, Ky. (30). Died Aug. 4, 1883.

Todd, Albert, St. Louis, Mo. (27). Born March 4, 1813. Died April 30, 1885.

Tolderoy, James B., Fredericton, N. B. (11).

Torrey, John, New York, N. Y. (1). Born in New York, N. Y., Aug. 15, 1796. Died in New York, March 10, 1873.

Torrey, Joseph, Burlington, Vt. (2). Born in Rowley, Mass., Feb. 2, 1797. Died in Burlington, Vt., Nov. 26, 1867.

Totten, Joseph Gilbert, Washington, D. C. (1). Born in New Haven, Conn., August 23, 1788. Died in Washington, D. C., April 22, 1864.

Townsend, Howard, Albany, N. Y. (10). Born Nov. 22, 1823. Died Jan, 6, 1867.

Townsend, John Kirk, Philadelphia, Pa. (1). Born Aug. 10, 1809. Died Feb. 16, 1851.

Townsend, Robert, Albany, N. Y. (9). Born 1799. Died Aug. 15, 1866,

Trembley, J. B., Oakland, Cal. (17).

Troost, Gerard, Nashville, Tenn. (1). Born in Bois-le-Duc, Holland. March 15, 1776. Died in Nashville, Tenn., Aug. 14, 1850.

Trowbridge, William Pettit, New Haven, Conn. (10). Born in Troy, Mich., in 1828. Died in New Haven, Aug. 12, 1892.

Tuomey, Michæl, Tuscaloosa, Ala. (1). Born in Ireland, September 29, 1805. Died in Tuscaloosa, Ala., March 20, 1857.

Tupper, Samuel Y., Charleston, S. C. (38). Died in 1891.

Tweedale, John B., St. Thomas, Can. (35). Born in Ormskirk, Lancashire, Eng., Oct. 16, 1821. Died in St. Thomas, Can., Nov. 18, 1889.

Tyler, Edward R., New Haven, Conn. (1). Born Aug. 3, 1800. Died Sept. 28, 1848.

Tyler, Edward R., Washington, D. C. (31). Died in Washington, March 30, 1891.

Vancleve, John W., Dayton, Ohio (1).

Van der Weyde, Peter H., N. Y. (17). Born in Nymegen, Holland, in 1813. Died in Brooklyn, N. Y., March 17, 1895.

Vanuxem, Lardner, Bristol, Pa. (1). Born in Philadelphia, Pa., July 23, 1792. Died in Bristol, Pa., June 25, 1848.

Vasey, George, Washington, D. C. (32). Died in Washington, March 4, 1893.

Vaux, William Sanson, Philadelphia, Pa. (1). Born in Philadelphia, May 19, 1811. Died in Philadelphia, May 5, 1882.

Wadsworth, James Samuel, Genesee, N. Y. (2). Born in Genesee, N. Y., October 30, 1807. Died near Chancellorsville Va., May 8, 1864.

Wagner, Tobias, Philadelphia, Pa. (9).

Walker, J. R., Bay Saint Louis, Miss. (19). Born Aug. 7, 1830. Died June 22, 1887.

Walker, Joseph, Oxford, N. Y. (10).

Walker, Sears C., Washington, D. C. (1). Born March 28, 1805. Died January 30, 1853.

Walker, Timothy, Cincinnati, Ohio (4). Born in Wilmington, Mass., Dec. 1, 1802. Died in Cincinnati, Ohio, Jan. 15, 1856.

Walling, H. F., Cambridge, Mass. (16). Died April 8, 1888.

Walsh, Benjamin D., Rock Island, Ill. (17). Born in Frome, England, Sept. 21, 1808. Died in Rock Island, Ill., Nov. 18, 1869.

Walton, Joseph J., Philadelphia, Pa. (29). Born in Barnesville, Ohio, Nov. 1, 1855. Died in Philadelphia, Pa., Oct. 11, 1889.

Walton, Joseph R., Washington, D. C. (40). Died Sept. 23, 1892.

Wanzer, Ira, Brookfield, Conn. (18). Born in New Fairfield, Conn., April 17, 1796. Died in New Milford, Conn., March 5, 1879.

Warnecke, Carl, Montreal, Can. (31). Died May 14, 1886.

Warren, Cyrus M., Brookline, Mass. (29). Died Aug. 13, 1891.

Warren, Geo. Washington, Boston, Mass. (18). Died in 1884.

Warren, Gouverneur Kemble, Newport, R. I. (12). Born in Cold Spring, N. Y., Jan. 8, 1830. Died in Newport, R. I., Aug. 8, 1882.

Warren, John Collins, Boston, Mass. (1). Born in Boston, Mass., Aug. 1, 1778. Died in Boston, May 4, 1856.

Warren, Samuel D., Boston, Mass. (29). Born in 1817. Died May 11, 1888.

Waters, Edwin Forbes, Boston, Mass. (29). Born in Petersham, Mass. in July, 1822. Died in San Francisco, Cal., April 18, 1894.

Watertown, Charles, Wakefield, Eng. (1). Born in Wakefield, England. Died in Wakefield, May 26, 1865.

Watkins, Samuel, Nashville, Tenn. (26).

Watson, James Craig, Ann Arbor, Mich. (13). Born in Fingal, Canada, Jan. 28, 1838. Died in Madison, Wis., Nov. 23, 1880.

Watson, Sereno, Cambridge, Mass. (22). Died March 9, 1892, in the 66th year of his age.

Webster, Horace B., Albany, N. Y. (1). Born in 1812. Died Dec. 8, 1843.

Webster, J. W., Cambridge, Mass. (1). Born in 1793. Died Aug. 30, 1850.

Webster, M. H., Albany, N. Y. (1).

Weed, Monroe, Wyoming, N. Y. (6). Died in 1867.

Welch, Mrs. G. O., Lynn, Mass. (21). Died in June, 1882.

Welsh, John, Philadelphia, Pa. (33). Died May, 1886.

Weyman, George W., Pittsburgh, Pa. (6). Born April, 1832. Died July 16, 1864.

Wheatland, Henry, Salem, Mass. (1). Born in Salem, Jan. 11, 1812. Died in Salem, Feb. 27, 1893.

Wheatland, Richard H., Salem, Mass. (13). Born July 6, 1830. Died Dec. 21, 1863.

Wheatley, Charles M., Phœnixville, Pa. (1). Died May 6, 1882.

Wheeler, Arthur W., Baltimore, Md. (29). Born in March, 1859. Died Jan. 6, 1881.

Wheildon, Alice W., Concord, Mass. (31). Died June 16, 1893.

Wheildon, William W., Concord, Mass. (13). Born in 1805. Died in Concord, Mass., Jan. 7, 1892.

Whelen, Edward S., Philadelphia, Pa. (33). Died Feb. 14, 1894.

Whitall, Henry, Camden, N. J. (33).

White, Samuel S., Philadelphia, Pa. (23). Died Dec. 30, 1879.

Whiting, Lewis E., Saratoga Springs, N. Y. (28). Born March 7, 1815. Died Aug. 2, 1882.

Whitman, Edmund B., Cambridge, Mass. (29). Died Sept. 2, 1883.

Whitman, Wm. E., Philadelphia, Pa. (23). Died in 1875.

Whitney, Asa, Philadelphia, Pa. (1). Born Dec. 1, 1791. Died June 4, 1874.

Whittlesey, Charles, Cleveland, Ohio (1). Born in Southington, Conn., Oct. 5, 1808. Died Oct. 18, 1886.

Whittlesey, Charles C., St. Louis, Mo. (11). Died in 1872.

Wight, Orlando W., Detroit, Mich. (34).

Wilber, G. M., Pine Plains, N. Y. (19).

Wilder, Graham, Louisville, Ky. (30). Born July 1, 1843. Died Jan. 16, 1885.

Willard, Emma C. Hart, Troy, N. Y. (15). Born in Berlin, Conn., Feb. 23, 1787. Died in Troy, N. Y., April 15, 1870.

Williams, Frank, Buffalo, N. Y. (25). Died Aug. 13, 1884.

Williams, George Huntington, Baltimore, Md. (33). Died in Utica, N. Y. in July, 1894.

Williams, J. Francis, Salem, N. Y. (31). Died in 1891.

Williams, P. O., Watertown, N. Y. (24).

Williamson, Robert S., San Francisco, Cal. (12). Born in New York about 1825.

Wilson, C. H., Belize, British Honduras (30).

Wilson, Daniel, Toronto, Can. (25). Born in Edinburgh, Scotland. Died in Toronto, Aug., 1892.

Wilson, Mrs. Mary V. C., Mobile, Ala. (37). Born in Morengo County, Ala., Jan. 29, 1840. Died near Tullahoma, Tenn., June 24, 1889.

Wilson, W. C., Carlisle, Pa. (12).

Winchell, Alexander, Ann Arbor, Mich. (3). Born in North East, N. Y., Dec. 31, 1824. Died in Ann Arbor, Mich., Feb. 19, 1891.

Winlock, Joseph, Cambridge, Mass. (5). Born in Shelbyville, Ky., Feb. 6, 1826. Died in Cambridge, Mass., June 11, 1875.

Woerd, Chas. Vander, Waltham, Mass. (29). Born in Leyden, Holland, Oct. 6, 1821. Died near Dagget, Cal., Dec. 29, 1888.

Wood, Robert W., Jamaica Plain, Mass. (29).

Woodbury, Levi, Portsmouth, N. H. (1). Born in Francistown, N. H., Dec. 22, 1789. Died Sept. 4, 1851.

Woodman, John Smith, Hanover, N. H. (11). Born in Durham, N. H., Sept. 6, 1819. Died in Durham, N. H., May 15, 1871.

Woodward, A. E., Jefferson City, Mo. (39). Died in Montana, Sept. 20, 1891.

Woodward, Joseph Janvier, Washington, D. C. (28). Born in Philadelphia, Pa., Oct. 30, 1833. Died near that city, Aug. 17, 1884.

Worthen, Amos Henry, Springfield, Ill. (5). Born Oct. 31, 1813. Died May 6, 1888.

Worthington, George, New York, N. Y. (36). Died Feb. 1, 1892.

Wright, Elizur, Boston, Mass. (31). Born in South Canaan, Conn., Feb. 12, 1804. Died Nov. 20, 1885.

Wright, Harrison, Wilkes Barre, Pa. (29). Born July 15, 1850. Died Feb. 20, 1885.

Wright, John, Troy, N. Y. (1). Born in Troy, N. Y., Feb. 2, 1811. Died in Aiken, S. C., April 11, 1846.

Wyman, Jeffries, Cambridge, Mass. (1). Born in Chelmsford, Mass., Aug. 11, 1814. Died in Bethlehem, N. H., Sept. 4, 1874.

Wyckoff, William Cornelius, New York, N. Y. (20). Born in New York, N. Y., May 28, 1832. Died in Brooklyn, N. Y., May 2, 1888.

Yarnall, M., Washington, D. C. (26). Born in 1817. Died Jan. 27, 1879,

Youmans, Edward Livingston, New York, N. Y. (6). Born in Coeymans. N. Y., June 3, 1821. Died Jan. 18, 1887.

Young, Ira, Hanover, N. H. (1). Born in Lebanon, N. H., May 23, 1801. Died in Hanover, N. H., Sept. 14, 1858.

Zentmayer, Joseph, Philadelphia, Pa. (29). Died, 1887.

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OF

THE AMERICAN ASSOCIATION

FOR THE

ADVANCEMENT OF SCIENCE,

FOR THE FORTY-SIXTH MEETING,

HELD AT

DETROIT, MICH.

AUGUST, 1897.

SALEM:
PUBLISHED BY THE PERMANENT SECRETARY.
1897.

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EDITED BY

FREDERIC W. PUTNAM,

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The Salem Press Co.
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1897.

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D. **Mechanical Science and Engineering** — JOHN GALBRAITH, Toronto, Canada.
E. **Geology and Geography** — I. C. WHITE, Morgantown, W. Va.
F. **Zoölogy** — G. BROWN GOODE, Washington, D. C. (*Deceased.*)
L. O. HOWARD, Washington, nominated to fill vacancy.
G. **Botany** — GEORGE F. ATKINSON, Ithaca, N. Y.
H. **Anthropology** — W J MCGEE, Washington, D. C.
I. **Social and Economic Science** — RICHARD T. COLBURN, Elizabeth, N. J.

PERMANENT SECRETARY.

F. W. PUTNAM, Cambridge, Mass. (Office Salem, Mass.)

GENERAL SECRETARY.

ASAPH HALL, JR., Ann Arbor, Mich.

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D. S. KELLICOTT, Columbus, Ohio.

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B. **Physics** — FREDERICK BEDELL, Ithaca, N. Y.
C. **Chemistry** — P. C. FREER, Ann Arbor, Mich.
D. **Mechanical Science and Engineering** — JOHN J. FLATHER, LaFayette, Ind.
E. **Geology and Geography** — C. H. SMYTH, JR., Clinton, N. Y.
F. **Zoölogy** — C. C. NUTTING, Iowa City, Iowa.
G. **Botany** — F. C. NEWCOMBE, Ann Arbor, Mich.
H. **Anthropology** — HARLAN I. SMITH, New York, N. Y. (*Resigned.*)
I. **Social and Economic Science** — ARCHIBALD BLUE, Toronto, Canada.

TREASURER.

R. S. WOODWARD of New York, N. Y.

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Vice Presidents of the Buffalo Meeting. — ALEX. MACFARLANE of S. Bethlehem; CARL LEO MEES of Terre Haute; W. A. NOYES of Terre Haute; FRANK O. MARVIN of Lawrence; BEN. K. EMERSON of Amherst; THEODORE GILL of Washington; N. L. BRITTON of New York; ALICE C. FLETCHER of Washington; WILLIAM R. LAZENBY of Columbus.

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3. *Committee on the Association Table in Biological Laboratory at Woods Holl.*

VICE PRESIDENTS OF SECTIONS F and G, and C. O. WHITMAN, Chicago.

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D. G. BRINTON, J. MC K. CATTELL, W. W. NEWELL, W J MCGEE, FRANZ BOAS.

9. *Committee to coöperate with the National Educational Association regarding the Teaching of Science in the Secondary Schools.*

R. S. TARR, H. S. CARHART, A. S. PACKARD, C. F. MABERRY, C. E. BESSEY.

10. *To represent the Association as Member of the American Advisory Board on an International Code of Zoölogical Nomenclature.*

A. S. PACKARD.

11. *Delegates to the International Geological Congress in St. Petersburg in 1897.*

EDWARD D. COPE (*Deceased*), JAMES HALL, B. K. EMERSON, W. N. RICE, C. D. WALCOTT. With power to fill any vacancy.

[1] All Committees are expected to present their reports to the COUNCIL not later than the third day of the meeting. Committees sending their reports to the Permanent Secretary one month before a meeting can have them printed for use at the meeting.

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WILLIAM S. CRANE, *Chairman.*

(8) MEETINGS AND OFFICERS OF THE AMERICAN ASSOCIATION OF GEOLOGISTS AND NATURALISTS.

MEETING.	DATE.	PLACE.	CHAIRMAN.	SECRETARY.	ASSIS'T SEC'Y.	TREASURER.
1st	April 2, 1840,	Philadelphia,	Edward Hitchcock,*	L. C. Beck,*		
2d	April 5, 1841,	Philadelphia,	Benjamin Silliman,*	L. C. Beck,*	B. Silliman, jr.,* C. B. Trego,*	
3d	April 25, 1842,	Boston,	S. G. Morton,*	C. T. Jackson,*	J. D. Whitney,* M. B. Williams,*	
4th	April 26, 1843,	Albany,	Henry D. Rogers,*	B. Silliman, jr.,*		John Locke.*
5th	May 8, 1844,	Washington,	John Locke,*	B. Silliman, jr.,* O. P. Hubbard,		Douglas Houghton.*
6th	April 30, 1845,	New Haven,	Wm. B. Rogers,*	B. Silliman, jr.,* J. Lawrence Smith,*		Douglas Houghton.*
7th	Sept. 2, 1846,	New York,	C. T. Jackson,*	B. Silliman, jr.,*		E. C. Herrick.*
8th	Sept. 20, 1847,	Boston,	Wm. B. Rogers,†*	Jeffries Wyman,*		B. Silliman, jr.*

* Deceased.

† Professor ROGERS, as chairman of this last meeting, called the first meeting of the new Association to order and presided until it was fully organized by the adoption of a constitution. As he was thus the first presiding officer of the new Association, it was directed at the Hartford meeting that his name be placed at the head of the Past Presidents of the American Association for the Advancement of Science.

MEETINGS.	PLACE.	DATE.	MEMBERS IN ATTENDANCE.	NUMBER OF MEMBERS.
1.	Philadelphia	Sept. 20, 1848	?	461
2.	Cambridge	Aug. 14, 1849	?	540
3.	Charleston	Mar. 12, 1850	?	622
4.	New Haven	Aug. 19, 1850	?	704
5.	Cincinnati	May 5, 1851	87	800
6.	Albany	Aug. 19, 1851	194	769
7.	Cleveland	July 28, 1853	?	940
8.	Washington	April 26, 1854	168	1004
9.	Providence	Aug. 15, 1855	166	605
10.	2nd Albany	Aug. 20, 1856	381	722
11.	Montreal	Aug. 12, 1857	351	946
12.	Baltimore	April 28, 1858	190	962
13.	Springfield	Aug. 3, 1859	190	862
14.	Newport	Aug. 1, 1860	135	644
15.	Buffalo	Aug. 15, 1866	79	637
16.	Burlington	Aug. 21. 1867	73	415
17.	Chicago	Aug. 5, 1868	259	686
18.	Salem	Aug. 18, 1869	244	511
19.	Troy	Aug. 17, 1870	188	536
20.	Indianapolis	Aug. 16, 1871	196	668
21.	Dubuque	Aug. 15' 1872	164	610
22.	Portland	Aug. 20, 1873	195	670
23.	Hartford	Aug. 12, 1874	224	722
24.	Detroit	Aug. 11, 1875	165	807
25.	2nd Buffalo	Aug. 23, 1876	215	867
26.	Nashville	Aug. 29, 1877	173	953
27.	St. Louis	Aug. 21, 1878	134	962
28.	Saratoga	Aug. 27, 1879	256	1030
29.	Boston	Aug. 25, 1880	997	1555
30.	2nd Cincinnati	Aug. 17, 1881	500	1699
31.	2nd Montreal	Aug. 23, 1882	937	1922
32.	Minneapolis	Aug. 15, 1883	328	2033
33.	2nd Philadelphia	Sept. 3, 1884	1261*	1981
34.	Ann Arbor	Aug. 26, 1885	364	1956
35.	3d Buffalo	Aug. 18, 1886	445	1886
36.	New York	Aug. 10, 1887	729	1956
37.	2nd Cleveland	Aug. 14, 1888	342	1964
38.	Toronto	Aug. 26, 1889	424	1952
39.	2d Indianapolis	Aug. 19. 1890	364	1944
40.	2d Washington	Aug. 19, 1891	653†	2054
41.	Rochester	Aug. 17, 1892	456	2037
42.	Madison	Aug. 17, 1893	290	1939
43.	Brooklyn	Aug. 15, 1894	488	1802
44.	2d Springfield	Aug. 28, 1895	368	1913
45.	4th Buffalo	Aug. 24, 1896	333	1890
46.	2d Detroit	Aug. 9, 1897	—	—

*Including members of the British Association and other foreign guests.
†Including twenty-four Foreign Honorary members for the meeting.

OFFICERS OF THE MEETINGS OF THE ASSOCIATION.

[The number before the name is that of the meeting; the year of the meeting follows the name; the asterisk after a name indicates that the member is deceased.]

PRESIDENTS.

1. { WM. B. ROGERS,* 1848.
   { W. C. REDFIELD,* 1848.
2. JOSEPH HENRY,* 1849.
3, 4, 5. A. D. BACHE,* March meeting, 1850, in absence of JOSEPH HENRY.* August meeting, 1850. May meeting, 1851.
6. LOUIS AGASSIZ,* August meeting, 1851.
   (No meeting in 1852).
7. BENJAMIN PIERCE,* 1853.
8. JAMES D. DANA,* 1854.
9. JOHN TORREY,* 1855.
10. JAMES HALL, 1856.
11, 12. ALEXIS CASWELL,* 1857, in place of J. W. BAILEY,* deceased. 1858, in absence of JEFFRIES WYMAN.*
13. STEPHEN ALEXANDER,* 1859.
14. ISAAC LEA,* 1860.
   (No meetings for 1861–65).
15. F. A. P. BARNARD,* 1866.
16. J. S. NEWBERRY,* 1867.
17. B. A. GOULD,* 1868.
18. J. W. FOSTER,* 1869.
19. T. STERRY HUNT,* 1870, in the absence of WM. CHAUVENET.*
20. ASA GRAY,* 1871.
21. J. LAWRENCE SMITH,* 1872.
22. JOSEPH LOVERING,* 1873.
23. J. L. LECONTE,* 1874.
24. J. E. HILGARD,* 1875.
25. WILLIAM B. ROGERS,* 1876.
26. SIMON NEWCOMB, 1877.
27. O. C. MARSH, 1878.
28. G. F. BARKER, 1879.
29. LEWIS H. MORGAN,* 1880.
30. G. J. BRUSH, 1881.
31. J. W. DAWSON, 1882.
32. C. A. YOUNG, 1883.
33. J. P. LESLEY, 1884.
34. H. A. NEWTON,* 1885.
35. EDWARD S. MORSE, 1886.
36. S. P. LANGLEY, 1887.
37. J. W. POWELL, 1888.
38. T. C. MENDENHALL, 1889.
39. G. LINCOLN GOODALE, 1890.
40. ALBERT B PRESCOTT, 1891.
41. JOSEPH LECONTE, 1892.
42. WILLIAM HARKNESS, 1893.
43. DANIEL G. BRINTON, 1894.
44. E. W. MORLEY, 1895.
45. EDWARD D. COPE,* 1896.
46. WOLCOTT GIBBS, 1897.

VICE PRESIDENTS.

There were no Vice Presidents until the 11th meeting when there was a single Vice President for each meeting. At the 24th meeting the Association met in Sections A and B, each presided over by a Vice President. At the 31st meeting nine sections were organized, each with a Vice President as its presiding officer. In 1886, Section G (Microscopy) was given up. In 1892, Section F was divided into F, Zoology; G, Botany.

1857–1874.

11. ALEXIS CASWELL,* 1857, acted as President.
12. JOHN E. HOLBROOK,* 1858, not present.
13. EDWARD HITCHCOCK,* 1859.
14. B. A. GOULD,* 1860.
15. A. A. GOULD,*1866, in absence of R. W. GIBBES.
16. WOLCOTT GIBBS, 1867.
17. CHARLES WHITTLESEY,* 1868.
18. OGDEN N. ROOD, 1869.
19. T. STERRY HUNT,* 1870, acted as President.
20. G. F. BARKER, 1871.
21. ALEXANDER WINCHELL,* 1872.
22. A. H. WORTHEN,* 1873, not present.
23. C. S. LYMAN,* 1874.

1875–1881.

Section A.—Mathematics, Physics and Chemistry.

24. H. A. NEWTON,* 1875.
25. C. A. YOUNG, 1876.
26. R. H. THURSTON, 1877, in the absence of E. C. PICKERING.
27. R. H. THURSTON, 1878.
28. S. P. LANGLEY, 1879.
29. ASAPH HALL, 1880.
30. WILLIAM HARKNESS, 1881, in the absence of A. M. MAYER.*

Section B.—Natural History.

24. J. W. DAWSON, 1875.
25. EDWARD S. MORSE, 1876.
26. O. C. MARSH, 1877.
27. AUG. R. GROTE, 1878.
28. J. W. POWELL, 1879.
29. ALEXANDER AGASSIZ, 1880
30. EDWARD T. COX, 1881, in the absence of GEORGE ENGELMANN.*

CHAIRMEN OF SUBSECTIONS, 1875–1881.

Subsection of Chemistry.

24. S. W. JOHNSON, 1875.
25. G. F. BARKER, 1876.
26. N. T. LUPTON,* 1877.
27. F. W. CLARKE, 1878.
28. F. W. CLARKE, 1879, in the absence of IRA REMSEN.
29. J. M. ORDWAY, 1880.
30. G. C. CALDWELL, 1881, in the absence of W. R. NICHOLS.*

Subsection of Microscopy.

25. R. H. WARD, 1876.
26. R. H. WARD, 1877.
27. R. H. WARD, 1878, in the absence of G. S. BLACKIE.*
28. E. W. MORLEY, 1879.
29. S. A. LATTIMORE, 1880.
30. A. B. HERVEY, 1881.

Subsection of Anthropology.

24. LEWIS H. MORGAN,* 1875.
25. LEWIS H. MORGAN,* 1876.
26. DANIEL WILSON,* 1877, not present
27. United with Section B.
28. DANIEL WILSON,* 1879.
29. J W. POWELL, 1880.
30. GARRICK MALLERY,* 1881.

Subsection of Entomology.

30. J. G. MORRIS,* 1881.

VICE PRESIDENTS OF SECTIONS, 1882–

Section A.—Mathematics and Astronomy.

31. W. A. ROGERS, 1882, in the absence of WILLIAM HARKNESS.
32. W. A. ROGERS, 1883.
33. H. T. EDDY, 1884.
34. WILLIAM HARKNESS, 1885, in the absence of J. M. VAN VLECK.
35. J. W. GIBBS, 1886.
36. J. R. EASTMAN, 1887, in place of W. FERREL.* resigned.
37. ORMOND STONE, 1888.
38. R. S. WOODWARD, 1889.
39. S. C. CHANDLER, 1890.
40. E. W. HYDE, 1891.
41. J. R. EASTMAN, 1892.
42. C. L. DOOLITTLE, 1893.
43. { G. C. COMSTOCK, 1894. EDGAR FRISBY, 1894.
44. EDGAR FRISBY, 1895, in place of E. H. HOLDEN, resigned.
45. ALEX. MACFARLANE, 1896 in place of WM. E. STORY, resigned.
46. W. W. BEMAN, 1897.

Section B.—Physics.

31. T. C. MENDENHALL, 1882.
32. H. A. ROWLAND, 1883
33. J. TROWBRIDGE, 1884.
34. S. P. LANGLEY, 1885, in place of C. F. BRACKETT, resigned.
35. C. F. BRACKETT, 1886.
36. W. A. ANTHONY, 1887.
37. A. A. MICHELSON, 1888.
38. H. S. CARHART, 1889.
39. CLEVELAND ABBE, 1890.
40. F. E. NIPHER, 1891.
41. B. F. THOMAS, 1892.
42. E. L. NICHOLS, 1893.
43. WM. A. ROGERS, 1894.
44. W. LECONTE STEVENS, 1895
45. CARL LEO MEES, 1896.
46. CARL BARUS, 1897.

Section C.—Chemistry.

31. H. C. BOLTON, 1882.
32. E. W. MORLEY, 1883.
33. J. W. LANGLEY, 1884.
34. N. T. LUPTON,* 1885, in absence of W. R. NICHOLS.*
35. H. W. WILEY, 1886.
36. A. B. PRESCOTT, 1887.
37. C. E. MUNROE, 1888.
38. W. L. DUDLEY, 1889.
39. R. B. WARDER, 1890.
40. R. C. KEDZIE, 1891.
41. ALFRED SPRINGER, 1892.
42. EDWARD HART, 1893.
43. T. H. NORTON, 1894.
44. WM. MCMURTRIE, 1895.
45. W. A. NOYES, 1896.
46. W. P. MASON, 1897.

Section D.—Mechanical Science and Engineering.

31. W. P. TROWBRIDGE,* 1882.
32. DE VOLSON WOOD, 1883, absent, but place was not filled.
33. R. H. THURSTON, 1884.
34. J. BURKITT WEBB, 1885.
35. O. CHANUTE, 1886.
36. E. B. COXE, 1887.
37. C. J. H. WOODBURY, 1888.
38. JAMES E. DENTON, 1889.
39. JAMES E. DENTON, 1890, in place of A. BEARDSLEY, absent.
40. THOMAS GRAY, 1891.
41. J. B. JOHNSON, 1892.
42. S. W. ROBINSON, 1893.
43. MANSFIELD MERRIMAN, 1894.
44. WILLIAM KENT, 1895.
45. FRANK O. MARVIN, 1896.
46. JOHN GALBRAITH, 1897.

VICE PRESIDENTS OF SECTIONS, CONTINUED.

Section E.—Geology and Geography.

31. E. T. COX, 1882.
32. C. H. HITCHCOCK, 1883.
33. N. H. WINCHELL, 1884.
34. EDWARD ORTON, 1885.
35. T. C. CHAMBERLIN, 1886.
36. G. K. GILBERT, 1887.
37. GEORGE H. COOK,* 1888.
38. CHARLES A. WHITE, 1889.
39. JOHN C. BRANNER, 1890.
40. J. J. STEVENSON, 1891.
41. H. S. WILLIAMS, 1892.
42. CHARLES D. WALCOTT, 1893.
43. SAMUEL CALVIN, 1894.
44. JED. HOTCHKISS, 1895.
45. B. K. EMERSON, 1896.
46. I. C. WHITE, 1897.

Section F.—Biology.

31. W. H. DALL, 1882.
32. W. J. BEAL, 1883.
33. E. D. COPE, 1884.
34. T. J. BURRILL, 1885, in the absence of B. G. WILDER.
35. H. P. BOWDITCH, 1886.
36. W. G. FARLOW, 1887.
37. C. V. RILEY,* 1888.
38. GEORGE L. GOODALE, 1889.
39. C. S. MINOT, 1890.
40. J. M. COULTER, 1891.
41. S. H. GAGE, 1892.

Section F.— Zoölogy.

42. HENRY F. OSBORN, 1893.
43. J. A. LINTNER, 1894, in place of S. H. SCUDDER, resigned.
44. L. O. HOWARD, 1895, in place of D. S. JORDAN, resigned.
45. THEO. GILL, 1896.
46. L. O. HOWARD, 1897, in place of G. BROWN GOODE,* deceased.

Section G.—Microscopy.

31. A. H. TUTTLE, 1882.
32. J. D. COX, 1883.
33. T. G. WORMLEY, 1884.
34. S. H. GAGE, 1885.

(Section united with F in 1886.)

Section G.—Botany.

42. CHARLES E. BESSEY, 1893
43. { L. M. UNDERWOOD, 1894. C. E. BESSEY, 1894.
44. J. C. ARTHUR, 1895.
45. N. L. BRITTON, 1896.
46. G. F. ATKINSON, 1897.

Section H.—Anthropology.

31. ALEXANDER WINCHELL,* 1882.
32. OTIS T. MASON, 1883.
33. EDWARD S. MORSE, 1884.
34. J. OWEN DORSEY,* 1885, in absence of W. H. DALL.
35. HORATIO HALE,* 1886.
36. D. G. BRINTON, 1887.
37. CHARLES C. ABBOTT, 1888.
38. GARRICK MALLERY,* 1889.
39. FRANK BAKER, 1890.
40. JOSEPH JASTROW, 1891.
41. W. H. HOLMES, 1892.
42. J. OWEN DORSEY,* 1893.
43. FRANZ BOAS, 1894.
44. F. H. CUSHING, 1895.
45. ALICE C. FLETCHER, 1896.
46. W J MCGEE, 1897.

Section I.—Economic Science and Statistics.

31. E. B. ELLIOTT,* 1882.
32. FRANKLIN B. HOUGH,* 1883.
33. JOHN EATON,* 1884.
34. EDWARD ATKINSON, 1885.
35. JOSEPH CUMMINGS,* 1886.
36. H. E. ALVORD, 1887.
37. CHARLES W. SMILEY, 1888.
38. CHARLES S. HILL, 1889.
39. J. RICHARDS DODGE, 1890.
40. EDMUND J. JAMES, 1891.
41. LESTER F. WARD, 1892, in place of S. DANA HORTON,* resigned.
42. WILLIAM H. BREWER, 1893.
43. HENRY FARQUHAR, 1894.
44. B. E. FERNOW, 1895.
45. W. L. LAZENBY, 1896.
46. R. T. COLBURN, 1897.

SECRETARIES.

General Secretaries, 1848–

1. WALTER R. JOHNSON,* 1848.
2. EBEN N. HORSFORD,* 1849, in the absence of JEFFRIES WYMAN.*
3. L. R. GIBBS, 1850, in absence of E. C. HERRICK.*
4. E. C. HERRICK,* 1850.
5. WILLIAM B. ROGERS,* 1851, in absence of E. C. HERRICK.*
6. WILLIAM B. ROGERS,* 1851.
7. S. ST. JOHN,* 1853, in absence of J. D. DANA.*
8. J. LAWRENCE SMITH,* 1854.
9. WOLCOTT GIBBS, 1855.
10. B. A. GOULD,* 1856.
11. JOHN LECONTE,* 1857.
12. W. M. GILLESPIE,* 1858, in absence of WM. CHAUVENET.*
13. WILLIAM CHAUVENET,* 1859.
14. JOSEPH LECONTE, 1860.
15. ELIAS LOOMIS,* 1866, in the absence of W. P. TROWBRIDGE*
16. C. S LYMAN,* 1867.
17. SIMON NEWCOMB, 1868, in place of A. P. ROCKWELL, called home.
18. O. C. MARSH, 1869.
19. F. W. PUTNAM, 1870, in absence of C. F. HARTT.*
20. F. W. PUTNAM, 1871.
21. EDWARD S. MORSE, 1872.
22. C. A. WHITE, 1873.
23. A. C. HAMLIN, 1874.
24. S. H. SCUDDER, 1875.
25. T. C. MENDENHALL, 1876.
26. AUG. R. GROTE, 1877.
27. H. C. BOLTON, 1878.
28. H. C. BOLTON, 1879, in the absence of GEORGE LITTLE.
29. J. K. REES, 1880.
30. C. V. RILEY,* 1881.
31. WILLIAM SAUNDERS, 1882.
32. J. R. EASTMAN, 1883.
33. ALFRED SPRINGER, 1884.
34. C. S. MINOT, 1885.
35. S. G WILLIAMS, 1886.
36. WILLIAM H. PETTEE, 1887.
37. JULIUS POHLMAN, 1888.
38. C. LEO MEES, 1889.
39. H. C. BOLTON, 1890.
40. H. W. WILEY, 1891.
41. A. W. BUTLER, 1892.
42. T. H. NORTON, 1893.
43. H. L. FAIRCHILD, 1894.
44. JAS. LEWIS HOWE, 1895.
45. CHARLES R. BARNES, 1896.
46. ASAPH HALL, JR., 1897.

Permanent Secretaries, 1851–

5-7. SPENCER F. BAIRD,* 1851-3.
8-17. JOSEPH LOVERING,* 1854-68.
18. F. W. PUTNAM, 1869, in the absence of J. LOVERING.*
19-21. JOSEPH LOVERING,* 1870-72.
22-23. F. W. PUTNAM, 1873-74.
24-28. F. W. PUTNAM, 1875-79.
29-33. F. W. PUTNAM, 1880-84.
34-38. F. W. PUTNAM, 1885-89.
39-43. F. W. PUTNAM, 1890-94.
44-48. F. W. PUTNAM, 1895-99.

Assistant General Secretaries, 1882-1887.

31. J. R. EASTMAN, 1882.
32. ALFRED SPRINGER, 1883.
33. C. S. MINOT, 1884, in the absence of E. S. HOLDEN.
34. S. G. WILLIAMS, 1885, in the absence of C. C. ABBOTT.
35. W. H. PETTEE, 1886.
36. J. C. ARTHUR, 1887.

Secretaries of the Council, 1888–

37. C. LEO MEES, 1888.
38. H. C. BOLTON, 1889.
39. H. W. WILEY, 1890.
40. A. W. BUTLER, 1891.
41. T. H. NORTON, 1892.
42. H. LEROY FAIRCHILD, 1893.
43. JAS. LEWIS HOWE, 1894.
44. CHARLES R. BARNES, 1895.
45. ASAPH HALL, JR., 1896.
46. D. S. KELLICOTT, 1897.

Secretaries of Section A.—Mathematics, Physics and Chemistry, 1875–81.

24. { S. P. LANGLEY, 1875.
{ T. C. MENDENHALL, 1875.
25. A. W. WRIGHT, 1876.
26. H. C. BOLTON, 1877.
27. F. E. NIPHER, 1878.
28. J. K. REES, 1879.
29. H. B. MASON, 1880.
30. E. T. TAPPAN, 1881, in the absence of JOHN TROWBRIDGE.

Secretaries of Section B.— Natural History, 1875–81.

24. EDWARD S. MORSE, 1875.
25. ALBERT H. TUTTLE, 1876.
26. WILLIAM H. DALL, 1877.
27. GEORGE LITTLE, 1878.
28. WILLIAM H. DALL, 1879, in the absence of A. C. WETHERBY.
29. CHARLES V. RILEY,* 1880.
30. WILLIAM SAUNDERS, 1881.

SECRETARIES OF SUBSECTIONS, 1875–81.

Subsection of Chemistry.

24. F. W. CLARKE, 1875.
25. H. C. BOLTON, 1876.
26. P. SCHWEITZER, 1877.
27. A. P. S. STUART, 1878.
28. W. R. NICHOLS,* 1879.
29. C. E. MUNROE, 1880.
30. ALFRED SPRINGER, 1881, in the absence of R. B. WARDER.

Subsection of Entomology.

30. B. P. MANN, 1881.

Subsection of Anthropology.

24. F. W. PUTNAM, 1875.
25. OTIS T. MASON, 1876.
26, 27. United with Section B.
28, 29, 30. J. G. HENDERSON, 1879–81.

Subsection of Microscopy.

25. E. W. MORLEY, 1876.
26. T. O. SOMMERS, JR., 1877.
27. G. J. ENGELMANN, 1878.
28, 29. A. B. HERVEY, 1879-1880.
30. W. H. SEAMAN, 1881, in the absence of S. P. SHARPLES.

SECRETARIES OF THE SECTIONS, 1882–

Section A.—Mathematics and Astronomy.

31. H. T. EDDY, 1882.
32. G. W. HOUGH, 1883, in the absence of W. W. JOHNSON.
33. G. W. HOUGH, 1884.
34. E. W. HYDE, 1885.
35. S. C. CHANDLER, 1886.
36. H. M. PAUL, 1887.
37. C. C. DOOLITTLE, 1888.
38. G. C. COMSTOCK, 1889.
39. W. W. BEMAN, 1890.
40. F. H. BIGELOW, 1891.
41. WINSLOW UPTON, 1892.
42. C. A. WALDO, 1893, in the absence of A. W. PHILLIPS.
43. J. C. KERSHNER, 1894, in place of W. W. BEMAN, resigned.
44. ASAPH HALL, JR., 1895, in place of E. H. MOORE, resigned.
45. EDWIN B. FROST, 1896.
46. JAMES MCMAHON, 1897.

Section B.—Physics.

31. C. S. HASTINGS, 1882.
32. F. E. NIPHER, 1883, in the absence of C. K. WEAD.
33. N. D. C. HODGES, 1884.
34. B. F. THOMAS, 1885, in place of A. A. MICHELSON, resigned.
35. H. S. CARHART, 1886.
36. C. LEO MEES, 1887.
37. ALEX. MACFARLANE, 1888.
38. E. L. NICHOLS, 1889.
39. E. M. AVERY, 1890.
40. ALEX. MACFARLANE, 1891.
41. BROWN AYRES, 1892.
42. W. LECONTE STEVENS, 1893.
43. B. W. SNOW, 1894.
44. E. MERRITT, 1895.
45. FRANK P. WHITMAN, 1896.
46. FREDERICK BEDELL, 1897.

SECRETARIES OF THE SECTIONS, CONTINUED.

Section C.—Chemistry.

31. ALFRED SPRINGER, 1882.
32. { J. W. LANGLEY, 1883.
    { W. MCMURTRIE, 1883.
33. H. CARMICHAEL, 1884, in the absence of R. B. WARDER.
34. F. P. DUNNINGTON, 1885.
35. W. MCMURTRIE, 1886.
36. C. S. MABERY, 1887.
37. W. L. DUDLEY, 1888.
38. EDWARD HART, 1889.
39. W. A. NOYES, 1890.
40. T. H. NORTON, 1891.
41. JAS. LEWIS HOWE, 1892.
42. H. N. STOKES, 1893, in the absence of J. U. NEF.
43. MORRIS LOEB, 1894, in place of S. M. BABCOCK, resigned.
44. { W. P. MASON, 1895.
    { W. O. ATWATER, 1895.
45. FRANK P. VENABLE, 1896.
46. P. C. FREER, 1897.

Section D.—Mechanical Science and Engineering.

31. J. BURKITT WEBB, 1882, in the absence of C. R. DUDLEY.
32. J. BURKITT WEBB, 1883, *pro tempore.*
33. J. BURKITT WEBB, 1884.
34. C. J. H. WOODBURY, 1885.
35. WILLIAM KENT, 1886.
36. G. M. BOND, 1887.
37. ARTHUR BEARDSLEY, 1888.
38. W. B. WARNER, 1889.
39. THOMAS GRAY, 1890.
40. WILLIAM KENT, 1891.
41. O. H. LANDRETH, 1892.
42. D. S. JACOBUS, 1893.
43. JOHN H. KINEALY, 1894.
44. H. S. JACOBY, 1895.
45. JOHN GALBRAITH, 1896.
46. JOHN J. FLATHER, 1897.

Section E.—Geology and Geography.

31. H. S. WILLIAMS, 1882, in the absence of C. E. DUTTON.
32. A. A. JULIEN, 1883.
33. E. A. SMITH, 1884.
34. G. K. GILBERT, 1885, in the absence of H. C. LEWIS.*
35. E. W. CLAYPOLE, 1886.
36. W. M. DAVIS, 1887, in the absence of T. B. COMSTOCK.
37. JOHN C. BRANNER, 1888.
38. JOHN C. BRANNER, 1889.
39. SAMUEL CALVIN, 1890.
40. W J MCGEE, 1891.
41. R D. SALISBURY, 1892.
42. W. H. HOBBS, 1893, in place of R. T. HILL, resigned.
43. JED. HOTCHKISS, 1894, in place of W. M. DAVIS, resigned.
44. J. PERRIN SMITH, 1895.
45. W. N. RICE, 1896, in place of A. C. GILL, resigned.
46. C. H. SMYTH, JR., 1897.

Section F.—Biology, 1882–92.

31. WILLIAM OSLER, 1882, in the absence of C. S. MINOT.
32. S. A. FORBES, 1883.
33. C. E. BESSEY, 1884.
34. J. A. LINTNER, 1885, in place of C. H. FERNALD, resigned.
35 J. C. ARTHUR, 1886.
36. J. H. COMSTOCK, 1887.
37. B. H. FERNOW, 1888.
38. A. W. BUTLER, 1889.
39. J. M. COULTER, 1890.
40. A. J. COOK, 1891.
41. B. D. HALSTED, 1892.

Section F.—Zoölogy.

42. L. O. HOWARD, 1893.
43. JOHN B. SMITH, 1894, in place of WM. LIBBY, JR., resigned.
44. C. W. HARGITT 1895, in place of S. A. FORBES, resigned.
45. D. S. KELLICOTT, 1896.
46. C. C. NUTTING, 1897.

SECRETARIES OF THE SECTIONS, CONTINUED.

Section G.—Microscopy, 1882–85.

31. ROBERT BROWN, JR., 1882.
32. CARL SEILER, 1883.
33. ROMYN HITCHCOCK, 1884.
34. W. H. WALMSLEY, 1885.

Section G.—Botany.

42. B. T. GALLOWAY, 1893, in the absence of F. V. COVILLE.
43. CHARLES R. BARNES, 1894.
44. { B. T. GALLOWAY, 1895. M. B. WAITE, 1895.
45. GEORGE F. ATKINSON, 1896.
46. F. C. NEWCOMBE, 1897.

Section H.—Anthropology.

31. OTIS T. MASON, 1882.
32. G. H. PERKINS, 1883.
33. G. H. PERKINS, 1884, in the absence of W. H. HOLMES.
34. ERMINNIE A. SMITH,* 1885.
35. A. W. BUTLER, 1886.
36. CHARLES C. ABBOTT, 1887, in absence of F. W. LANGDON.
37. FRANK BAKER, 1888.
38. W. M. BEAUCHAMP, 1889.
39. JOSEPH JASTROW, 1890.
40. W. H. HOLMES, 1891.
41. W. M. BEAUCHAMP, 1892, in place of S. CULIN, resigned.
42. WARREN K. MOOREHEAD, 1893.
43. A. F. CHAMBERLIN, 1894.
44. { STEWART CULIN and W. W. TOOKER, 1895, in place of ANITA N. MCGEE resigned.
45. G. H. PERKINS, 1896, in place of J. G. BOURKE,* deceased.
46. —— ——, 1897, in place of HARLAN I. SMITH, resigned.

Section I.—Economic Science and Statistics.

31. { FRANKLIN B. HOUGH,* 1882. J. RICHARDS DODGE, 1882.
32. JOSEPH CUMMINGS,* 1883.
33. CHARLES W. SMILEY, 1884.
34. CHARLES W. SMILEY, 1885, in absence of J. W. CHICKERING.
35. H. E. ALVORD, 1886.
36. W. R. LAZENBY, 1887.
37. CHARLES S. HILL, 1888.
38. J. RICHARDS DODGE, 1889.
39. B. E. FERNOW, 1890.
40. B. E. FERNOW, 1891.
41. HENRY FARQUHAR, 1892, in place of L. F. WARD made Vice-president.
42. NELLIE S. KEDZIE, 1893.
43. MANLEY MILES, 1894.
44. W. R. LAZENBY, 1895, in place of E. A. ROSS, resigned.
45. R. T. COLBURN, 1896.
46. ARCHIBALD BLUE, 1897.

TREASURERS.

1. JEFFRIES WYMAN,* 1848.
2. A. L. ELWYN,* 1849.
3. ST. J. RAVENEL,* 1850, in the absence of A. L. ELWYN.*
4. A. L. ELWYN,* 1850.
5. SPENCER F. BAIRD,* 1851, in absence of A. L. ELWYN.*

6–7. A. L. ELWYN,* 1851–1853.
8. J. L. LECONTE,* 1854, in absence of A. L. ELWYN.*

9–19. A. L. ELWYN,* 1855–1870.
20–30. WILLIAM S. VAUX,* 1871–1881.
32–42. WILLIAM LILLY,* 1882–1893.
43–46. R. S. WOODWARD, 1894–97.

COMMONWEALTH OF MASSACHUSETTS.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND SEVENTY-FOUR.

AN ACT

To Incorporate the "American Association for the Advancement of Science."

Be it enacted by the Senate and House of Representatives, in General Court assembled, and by the authority of the same, as follows:

Section 1. Joseph Henry of Washington, Benjamin Pierce of Cambridge, James D. Dana of New Haven, James Hall of Albany, Alexis Caswell of Providence, Stephen Alexander of Princeton, Isaac Lea of Philadelphia, F. A. P. Barnard of New York, John S. Newberry of Cleveland, B. A. Gould of Cambridge, T. Sterry Hunt of Boston, Asa Gray of Cambridge, J. Lawrence Smith of Louisville, Joseph Lovering of Cambridge and John LeConte of Philadelphia, their associates, the officers and members of the Association, known as the "American Association for the Advancement of Science," and their successors, are hereby made a corporation by the name of the "American Association for the Advancement of Science," for the purpose of receiving, purchasing, holding and conveying real and personal property, which it now is, or hereafter may be, possessed of, with all the powers and privileges, and subject to the restrictions, duties and liabilities set forth in the general laws which now or hereafter may be in force and applicable to such corporations.

Section 2. Said corporation may have and hold by purchase, grant, gift or otherwise, real estate not exceeding one hundred thousand dollars in value, and personal estate of the value of two hundred and fifty thousand dollars.

Section 3. Any two of the corporators above named are hereby authorized to call the first meeting of the said corporation in the month of August next ensuing, by notice thereof "by mail," to each member of the said Association.

Section 4. This act shall take effect upon its passage.

House of Representatives, March 10, 1874.
Passed to be enacted,
John E. Sanford, *Speaker*

In Senate, March 17, 1874.
Passed to be enacted.
Geo. B. Loring, *President.*

March 19, 1874.
Approved,
W. B. Washburn.

Secretary's Department,
Boston, April 3, 1874.
A true copy, Attest:
David Pulsifer,
Deputy Secretary of the Commonwealth.

CONSTITUTION

OF THE

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

Incorporated by Act of the General Court of the Commonwealth of Massachusetts.

OBJECTS.

ARTICLE 1. The objects of the Association are, by periodical and migratory meetings, to promote intercourse between those who are cultivating science in different parts of America, to give a stronger and more general impulse and more systematic direction to scientific research, and to procure for the labors of scientific men increased facilities and a wider usefulness.

MEMBERS, FELLOWS, PATRONS AND HONORARY FELLOWS.

ART. 2. The Association shall consist of Members, Fellows, Patrons, Corresponding Members and Honorary Fellows.

ART. 3. Any person may become a Member of the Association upon recommendation in writing by two members or fellows, and election by the Council. Any incorporated scientific society or institution, or any public or incorporated library, may be enrolled as a member of the Association by vote of the Council by payment of the initiation fee; such society, institution or library may be represented by either the President, Curator, Director or Librarian presenting proper credentials at any meeting of the Association for which the assessment has been paid.

ART. 4. Fellows shall be elected by the Council from such of the members as are professionally engaged in science, or have by their labors aided in advancing science. The election of fellows shall be by ballot and a majority vote of the members of the Council at a designated meeting of the Council.

ART. 5. Any person paying to the Association the sum of one thousand dollars shall be classed as a Patron, and shall be entitled to all the privileges of a member and to all its publications.

COMMONWEALTH OF MASSACHUSETTS.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND SEVENTY-FOUR.

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To Incorporate the "American Association for the Advancement of Science."

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Approved,
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A true copy, Attest:
David Pulsifer,
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ART. 4. Fellows shall be elected by the Council from such of the members as are professionally engaged in science, or have by their labors aided in advancing science. The election of fellows shall be by ballot and a majority vote of the members of the Council at a designated meeting of the Council.

ART. 5. Any person paying to the Association the sum of one thousand dollars shall be classed as a Patron, and shall be entitled to all the privileges of a member and to all its publications.

ART. 6. Honorary Fellows of the Association, not exceeding three for each section, may be elected; the nominations to be made by the Council and approved by ballot in the respective sections before election by ballot in General Session. Honorary Fellows shall be entitled to all the privileges of Fellows and shall be exempt from all fees and assessments, and entitled to all publications of the Association issued after the date of their election. Corresponding Members shall consist of such scientists not residing in America as may be elected by the Council, and their number shall be limited to fifty. Corresponding Members shall be entitled to all the privileges of members and to the annual volumes of Proceedings published subsequent to their election.

ART. 7. The name of any member or fellow two years in arrears for annual dues shall be erased from the list of the Association, provided that two notices of indebtedness, at an interval of at least three months, shall have been given; and no such person shall be restored until he has paid his arrearages or has been reëlected. The Council shall have power to exclude from the Association any member or fellow, on satisfactory evidence that said member or fellow is an improper person to be connected with the Association, or has in the estimation of the Council made improper use of his membership or fellowship.

ART. 8. No member or fellow shall take part in the organization of, or hold office in, more than one section at any one meeting.

OFFICERS.

ART. 9. The officers of the Association shall be elected by ballot in General Session from the fellows, and shall consist of a President, a Vice President from each section, a Permanent Secretary, a General Secretary, a Secretary of the Council, a Treasurer, and a Secretary of each Section; these, with the exception of the Permanent Secretary, shall be elected at each meeting for the following one and, with the exception of the Treasurer and the Permanent Secretary, shall not be reëligible for the next two meetings. The term of office of Permanent Secretary shall be five years.

ART. 10. The President, or, in his absence, the senior Vice President present, shall preside at all General Sessions of the Association and at all meetings of the Council. It shall also be the duty of the President to give an address at a General Session of the Association at the meeting following that over which he presided.

ART. 11. The Vice Presidents shall be chairmen of their respective

Sections, and of their Sectional Committees, and it shall be part of their duty to give an address, each before his own section, at such time as the council shall determine. The Vice Presidents may appoint temporary Chairmen to preside over the sessions of their sections, but shall not delegate their other duties. The Vice Presidents shall have seniority in order of their continuous membership in the Association.

ART. 12. The General Secretary shall be the Secretary of all General Sessions of the Association, and shall keep a record of the business of these sessions. He shall receive the records from the Secretaries of the Sections, which, after examination, he shall transmit with his own records to the Permanent Secretary within two weeks after the adjournment of the meeting.

ART. 13. The Secretary of the Council shall keep the records of the Council. He shall give to the Secretary of each Section the titles of papers assigned to it by the Council. He shall receive proposals for membership and bring them before the Council.

ART. 14. The Permanent Secretary shall be the executive officer of the Association under the direction of the Council. He shall attend to all business not specially referred to committees nor otherwise constitutionally provided for. He shall keep an account of all business that he has transacted for the Association, and make annually a general report for publication in the annual volume of Proceedings. He shall attend to the printing and distribution of the annual volume of Proceedings, and all other printing ordered by the Association. He shall issue a circular of information to members and fellows at least three months before each meeting, and shall, in connection with the Local Committee, make all necessary arrangements for the meetings of the Association. He shall provide the Secretaries of the Association with such books and stationery as may be required for their records and business, and shall provide members and fellows with such blank forms as may be required for facilitating the business of the Association. He shall collect all assessments and admission fees, and notify members and fellows of their election, and of any arrearages. He shall receive, and bring before the Council, the titles and abstracts of papers proposed to be read before the Association. He shall keep an account of all receipts and expenditures of the Association, and report the same annually at the first meeting of the Council, and shall pay over to the Treasurer such unexpended funds as the Council may direct. He shall receive and hold in trust for the

ART. 21. A General Session shall be held at 10 o'clock, A. M., on the first day of the meeting, and at such other times as the Council may direct.

SECTIONS AND SUBSECTIONS.

ART. 22. The Association shall be divided into Sections, namely:—A, *Mathematics and Astronomy;* B, *Physics;* C, *Chemistry, including its application to agriculture and the arts;* D, *Mechanical Science and Engineering;* E, *Geology and Geography;* F, *Zoölogy;* G, *Botany;* H, *Anthropology;* I, *Social and Economic Science.* The Council shall have power to consolidate any two or more Sections temporarily, and such consolidated Sections shall be presided over by the senior Vice President and Secretary of the Sections comprising it.

ART. 23. Immediately on the organization of a Section there shall be three fellows elected by ballot after open nomination, who, with the Vice President and Secretary and the Vice President and Secretary of the preceding meeting shall form its Sectional Committee. The Sectional Committees shall have power to fill vacancies in their own numbers. Meetings of the Sections shall not be held at the same time with a General Session.

ART. 24. The Sectional Committee of any Section may at its pleasure form one or more temporary Subsections, and may designate the officers thereof. The Secretary of a Subsection shall, at the close of the meeting, transmit his records to the Secretary of the Section.

ART. 25. A paper shall not be read in any Section or Subsection until it has been received from the Council and placed on the programme of the day by the Sectional Committee.

SECTIONAL COMMITTEES.

ART. 26. The Sectional Committees shall arrange and direct the business of their respective Sections. They shall prepare the daily programmes and give them to the Permanent Secretary for printing at the earliest moment practicable. No titles of papers shall be entered on the daily programmes except such as have passed the Council. No change shall be made in the programme for the day in a Section without the consent of the Sectional Committee. The Sectional Committees may refuse to place the title of any paper on the programme; but every such title, with the abstract of the paper or the paper itself, must be returned to the Council with the reasons why it was refused.

ART. 27. The Sectional Committees shall examine all papers and abstracts referred to the Sections, and they shall not place on the programme

any paper inconsistent with the character of the Association; and to this end they have power to call for any paper, the character of which may not be sufficiently understood from the abstract submitted.

Papers and Communications.

Art. 28. All members and fellows must forward to the Permanent Secretary, as early as possible, and when practicable before the convening of the Association, full titles of all the papers which they propose to present during the meeting, with a statement of the time that each will occupy in delivery, and also such abstracts of their contents as will give a general idea of their nature; and no title shall be referred by the Council to the Sectional Committee until an abstract of the paper or the paper itself has been received.

Art. 29. If the author of any paper be not ready at the time assigned, the title may be dropped to the bottom of the list.

Art. 30. Whenever practicable, the proceedings and discussions at General Sessions, Sections and Subsections shall be reported by professional reporters, but such reports shall not appear in print as the official reports of the Association unless revised by the Secretaries.

Printed Proceedings.

Art. 31. The Permanent Secretary shall have the Proceedings of each meeting printed in an octavo volume as soon after the meeting as possible, beginning one month after adjournment. Authors must prepare their papers or abstracts ready for the press, and these must be in the hands of the Secretaries of the Sections before the final adjournment of the meeting, otherwise only the titles will appear in the printed volume. The Council shall have power to order the printing of any paper by abstract or title only. Whenever practicable, proofs shall be forwarded to authors for revision. If any additions or substantial alterations are made by the author of a paper after its submission to the Secretary, the same shall be distinctly indicated. Illustrations must be provided for by the authors of the papers, or by a special appropriation from the Council. Immediately on publication of the volume, a copy shall be forwarded to every member and fellow of the Association who shall have paid the assessment for the meeting to which it relates, and it shall also be offered for sale by the Permanent Secretary at such price as may be determined by the Council. The Council shall also designate the institutions to which copies shall be distributed.

Local Committee.

Art. 32. The Local Committee shall consist of persons interested in the objects of the Association and residing at or near the place of the proposed meeting. It is expected that the Local Committee, assisted by the officers of the Association, will make all essential arrangements for the meeting, and issue a circular giving necessary particulars, at least one month before the meeting.

Library of the Association.

Art. 33. All books and pamphlets received by the Association shall be in the charge of the Permanent Secretary, who shall have a list of the same printed and shall furnish a copy to any member or fellow on application. Members and fellows who have paid their assessments in full shall be allowed to call for books and pamphlets, which shall be delivered to them at their expense, on their giving a receipt agreeing to make good any loss or damage and to return the same free of expense to the Secretary at the time specified in the receipt given. All books and pamphlets in circulation must be returned at each meeting. Not more than five books, including volumes, parts of volumes, and pamphlets, shall be held at one time by any member or fellow. Any book may be withheld from circulation by order of the Council. [The Library of the Association was, by vote of the Council in 1895, placed on deposit in the Library of the University of Cincinnati, Ohio. Members can obtain the use of books by writing to the Librarian of the University Library, Cincinnati, Ohio.]

Admission Fee and Assessments.

Art. 34. The admission fee for members shall be five dollars in addition to the annual assessment. On the election of any member as a fellow an additional fee of two dollars shall be paid.

Art. 35. The annual assessment for members and fellows shall be three dollars.

Art. 36. Any member or fellow who shall pay the sum of fifty dollars to the Association, at any one time, shall become a Life Member, and as such, shall be exempt from all further assessments, and shall be entitled to the Proceedings of the Association. All money thus received shall be invested as a permanent fund, the income of which, during the life of the member, shall form a part of the general fund of the Association; but, after his death, shall be used only to assist in original research, unless otherwise directed by unanimous vote of the Council.

ART. 37. All admission fees and assessments must be paid to the Permanent Secretary, who shall give proper receipts for the same.

ACCOUNTS.

ART. 38. The accounts of the Permanent Secretary and of the Treasurer shall be audited annually, by Auditors appointed by the Council.

ALTERATIONS OF THE CONSTITUTION.

ART. 39. No part of this Constitution shall be amended or annulled, without the concurrence of three-fourths of the members and fellows present in General Session, after notice given at a General Session of a preceding meeting of the Association.

MEMBERS

OF THE

AMERICAN ASSOCIATION

FOR THE

ADVANCEMENT OF SCIENCE.[1]

PATRONS.[2]

THOMPSON, MRS. ELIZABETH, Stamford, Conn. (22).
LILLY, GEN. WILLIAM, Mauch Chunk, Pa. (28). (Died Dec. 1, 1893.)
HERRMAN, MRS. ESTHER, 59 West 56th St., New York, N. Y. (29).

CORRESPONDING MEMBERS.[3]

Warington, Robert, F.R.S., Rothamsted, Harpenden, England (40). **C**

MEMBERS.[4]

Abbe, Cleveland, jr., 2017 I St., Washington, D. C. (44). **E**
Abraham, Abraham, Brooklyn, N. Y. (43).
Adams, C. E., M.D., Ballentine Gym., New Brunswick, N. J. (43). **F**
Aitkin, Miss Clara I., 210 Madison St., Brooklyn, N. Y. (40). **H**
Aitkin, Miss Helen J., 210 Madison St., Brooklyn, N. Y. (40). **E H**
Alden, Jno., Pacific Mills, Lawrence, Mass. (36).

[1] The numbers in parentheses indicate the meeting at which the member was elected. The black letters at the end of line indicate the sections to which members elect to belong. The Constitution requires that the names of all members two or more years in arrears shall be omitted from the list, but their names will be restored on payment of arrearages. Members not in arrears are entitled to the annual volume of Proceedings bound in paper. *The payment of ten dollars at one time entitles a member to the subsequent volumes to which he may be entitled, bound in cloth, or by the payment of twenty dollars, to such volumes bound in half morocco.*

[2] Persons contributing one thousand dollars or more to the Association are classed as Patrons, and are entitled to the privileges of members and to the publications.

The names of Patrons are to remain permanently on the list.

[3] See ARTICLE VI of the Constitution.

[4] Any Member or Fellow may become a Life Member by the payment of fifty dollars. The income of the money derived from a Life Membership is used for the general purposes of the Association during the life of the member; afterwards it is to be used to aid in original research. Life Members are exempt from the annual assessment, and are entitled to the annual volume. The names of Life Members are printed in small capitals in the regular list of Members and Fellows.

Aldis, Owen F., 230 Monadnock Block, Chicago, Ill. (41). **H**
Aldrich, Prof. William Sleeper, West Virginia Univ., Morgantown, W. Va. (43).
Allderdice, Wm. H., P. A. Engineer, U. S. Navy, care Navy Department, Washington, D. C. (33). **D**
Allen, Miss Augusta A., 42 Coulter St., Germantown, Pa. (44). **G**
Allen, J. M., Hartford, Conn. (22). **D**
Allen, John Robins, 18 So. Ingalls St., Ann Arbor, Mich. (45). **B D**
Allen, Prof. Thomas G., Armour Inst., Chicago, Ill. (43). **C**
Allen, Walter S., 34 So. Sixth St., New Bedford, Mass. (39). **C I**
Anderson, Alexander P., Botanist, Clemson College, S. C. (45). **G**
Andrews, E. R., Rochester, N. Y. (41).
Appleton, Rev. Edw. W., D.D., Ashbourne, Montgomery Co., Pa. (28).
Archambault, U. E., P. O. Box 1944, Montreal, P. Q., Can. (31).
Archbold, Dr. George, 65 Prospect Place, E. 42nd St., New York, N. Y. (40).
Arms, Miss Jennie M., 18 W. Cedar St., Boston, Mass. (44). **F**
Atkinson, Jno. B., Earlington, Hopkins Co., Ky. (26). **D**
Atwood, Dr. Charles, Moravia, N. Y. (45). **G**
Avery, Samuel P., 4 E. 38th St., New York, N. Y. (36).
Ayer, Edward Everett, Room 12, The Rookery, Chicago, Ill. (37). **H**
Ayres, Horace B., Allamuchy, N. J. (40).

Backus, Truman J., LL.D., Pres. Packer Institute, Brooklyn, N. Y. (43).
Bacon, Chas. A., Beloit, Wis. (36). **A**
Baker, A. G., Springfield, Mass. (44).
Baker, O. M., 499 Main St., Springfield, Mass. (44).
Balch, Samuel W., Yonkers, N. Y. (43).
Balderston, C. Canby, Westtown, Chester Co., Pa. (33). **B**
Baldwin, Mrs. G. H., 3 Madison Ave., Detroit, Mich. (34). **H**
Baldwin, Herbert B., 215 Market St., Newark, N. J. (43).
Baldwin, Miss Mary A., 28 Fulton St., Newark, N. J. (31). **E H I**
Bancroft, Alonzo C., Elma, Erie Co., N. Y. (41).
Banes, Charles H., 1107 Market St., Philadelphia, Pa. (31). **D**
Bangs, Lemuel Bolton, M.D., 127 E. 34th St., New York, N. Y. (36).
Bannan, John F., North Andover, Mass. (44). **C**
Barber, D. H., P. O. Box 83, Springville, Linn Co., Iowa (37).
Barbour, Prof. Ervin H., University of Nebraska, Lincoln, Neb. (45). **E**
Barclay, Robert, A.M., M.D., 3211 Lucas Ave., St. Louis, Mo. (30).
Barge, B. F., Mauch Chunk, Pa. (33).
Barker, Mrs. Martha M., 26 Eleventh St., Lowell, Mass. (31). **E H**
Barker, Mrs. Mary E., Collinsville, Conn. (45).
Barnard, Charles, 866 Carnegie Hall Studios, West 56th St., New York, N. Y. (43).
Barnett, Miss Katie Porter, Madison, Georgia (44). **A H**

Barnhart, Arthur M., 185 Monroe St., Chicago, Ill. (42).
Barrows, David Prescott, Claremont, Los Angeles Co., Cal. (43). **H**
Barrows, Walter B., Agricultural College, Ingham Co., Mich. (40). **F**
Barton, Prof. Samuel M., Kernstown, Va. (43). **A**
Bascom, Miss Florence, Bryn Mawr Coll., Bryn Mawr, Pa. (42). **E**
Bausch, Henry, P. O. Drawer 1033, Rochester, N. Y. (41).
Baxter, James N., care H. E. and C. Baxter, cor. Division and Bedford Sts., Brooklyn, N. Y. (36).
Bay, J. Christian, Bacteriologist of the Iowa State Board of Health, Ames, Iowa (42). **G**
Baylies, Bradford L.B., M.D., 418 Putnam Ave., Brooklyn, N. Y. (43).
Beach, Spencer Ambrose, N. Y. Experiment Station, Geneva, N. Y. (41). **G**
Bean, Thos. E., Box 441, Galena, Ill. (28). **F**
Becher, Franklin A., 406 Irving Place, Milwaukee, Wis. (41). **I A**
Beckwith, Miss Florence, 394 Alexander St., Rochester, N. Y. (45). **G**
Bell, Miss Clara, Springfield, Mass. (43).
Bell, C. M., M.D., 320 Fifth Ave., New York, N. Y. (36).
Benner, Henry (40). **A**
Bennett, Henry C., 256 W. 42nd St., New York, N. Y. (43).
Benneville, James S. de, 123 So. 7th St., Philadelphia, Pa. (46). **C**
Berry, Daniel, M.D., Carmi, White Co., Ill. (41). **B C E**
Biddle, James G., 944 Drexel Building, Philadelphia, Pa. (39).
Bien, Julius, 140 Sixth Ave., New York, N. Y. (34). **E H**
Bigelow, Willard Dell, Chem. Div., Dept. of Agric., Washington, D. C. (44). **C**
Biggar, Hamilton F., M.D., 176 Euclid Ave., Cleveland, Ohio (40). **B F**
Billings, Edgar F., 165 High St., Boston, Mass. (44). **C**
Birge, Prof. Edw. A., Univ. of Wis., Madison, Wis. (42). **F**
Biscoe, Prof. Thomas Dwight, 404 Front St., Marietta, Ohio (41). **G**
Bishop, Heber R., Mills Building, New York, N. Y. (36).
Blair, Mrs. Helen Quinche, The Ortiz, East Fourth and Sycamore Sts., Cincinnati, Ohio (40). **C**
Blake, Edwin Mortimer, 230 Washington Ave., Brooklyn, N. Y. (43).
Blatchford, Eliphalet W., 375 No. La Salle St., Chicago, Ill. (17). **F**
Bleile, Albert M., M.D., 342 S. Fourth St., Columbus, Ohio (37). **F**
Blish, W. G., Niles, Mich. (38). **B D**
Bodine, Donaldson, Prof. of Zoölogy and Geology, Wabash Coll., Crawfordsville, Ind. (45). **E F**
Bogue, Rev. Horace P. V., Avon, N. Y. (41). **H I**
Booraem, J. V. V., 204 Lincoln Place, Brooklyn, N. Y. (36).
Borner, William, The Majestic, 52 and 54 Walton Place, Chicago, Ill. (44).
Bourland, Addison M., M.D., Van Buren, Ark. (29). **C E F**
Bouton, Chas. L., M.S., 2909 Park Ave., St. Louis, Mo. (40). **A D**
Bowditch, Charles P., 28 State St., Boston, Mass. (43). **H**
Bowers, Miss Virginia K., 61 3d St., Newport, Ky. (27). **F H B C**
Bowker, R. R., 28 Elm St., New York, N. Y. (43). **B**

Boynton, May O., Ph.B., 69 North Prospect St., Burlington, Vt. (44). **C**
BRACKENRIDGE, GEO. W., San Antonio, Texas (41). **I**
Brackett, S. H., St. Johnsbury, Vt. (43).
BRADLEY, ARTHUR C., Newport, N. H. (43).
Bradley, Charles S., P. O. Box 259, Avon, N. Y. (40).
BRADLEY, M. J., 36 Hart St., Brooklyn, N. Y. (43).
Bradley, Milton, Springfield, Mass. (44). **B**
Bramwell, Geo. W., 335 Broadway, New York, N. Y. (43). **D**
Brayton, Miss Sarah H., M.D., Evanston, Ill. (33).
Breckenridge, Prof. Lester P., Champaign, Ill. (41).
Brewster, Mrs. Mary S., Mountainville, Orange Co., N. Y. (43).
Brice, Judge Albert G., 19 Camp St., New Orleans, La. (32). **H**
Briggs, Thomas B., 115 E. 73d St., New York, N. Y. (43).
Brigham, Prof. Albert P., Hamilton, Madison Co., N. Y. (41).
Britton, Wiley, Kansas City, Kansas (40). **F**
Brooks, Prof. Wm. P., Amherst, Mass. (38). **C F**
Brown, Henry A., Westport Point, Mass. (38). **I**
Brown, Jonathan, 390 Broadway, Somerville, Mass. (29).
Brown, Samuel B., Morgantown, W. Va. (40). **E**
Brundage, Albert H., Ph.G., M.D., 1153 Gates Ave., Brooklyn, N. Y. (43). **F G H**
Bryant, Miss D. L., 998 Spring Garden St., Greensboro, N. C. (42). **E**
Buckingham, Chas. L., 195 Broadway, New York, N. Y. (28).
Buffum, Prof. Burt C., State Univ., Laramie, Wyo. (42). **G**
Bull, Prof. Storm, Madison, Wis. (44). **D**
Burke, Arthur N., A.B., Principal of Monson Academy, Monson, Mass. (44).
Burr, Mrs. Laura E., Commercial Hotel, Lansing, Mich. (34). **B**
Burt, Milo Cudworth, Amherst, Mass. (44). **C**
Burton, Prof. Alfred E., Mass. Inst. of Technology, Boston, Mass. (40) **E**
Burwell, Arthur W., Ph.D., 208 Superior St., Cleveland, Ohio (37).

Calkins, Dr. Marshall, Springfield, Mass. (29).
Cannon, George L., jr., High School, Denver, Col. (39). **F H**
Card, Fred W., Prof. of Horticulture, Univ. of Nebraska, Lincoln, Neb. (45).
Carpenter, Mrs. Benjamin, 50 Cedar St., Chicago, Ill. (41). **H**
Carpenter, Ford A., U. S. Weather Bureau, San Diego, Cal. (44). **B**
Carpenter, Geo. O., jr., care St. Louis Lead and Oil Co., St. Louis, Mo. (29).
CARTER, JAMES C., 277 Lexington Ave., New York, N. Y. (36).
Carter, John E., Knox and Coulter Sts., Germantown, Pa. (33). **B H**
Cary, Albert A., 28 Cliff St., New York, N. Y. (36). **D**
Cary, Mrs. Elizabeth M. L., Buffalo, N. Y. (45). **E**
Chadbourn, Erlon R., Lewiston, Me. (29).
Chaney, Prof. Lucian W., Jr., Carleton Coll., Northfield, Minn. (45).
Chase, Frederick L., Yale Univ. Observ., New Haven, Conn. (43).

Chase, R. Stuart, 53 Summer St., Haverhill, Mass. (18). **F**
Chester, Commander Colby M., U. S. N., U. S. Naval Academy, Annapolis, Md. (28). **E**
Child, C. D., Ithaca, N. Y. (44). **B**
Chrystie, Wm. F., Hastings-on-Hudson, New York, N. Y. (36).
Church, Royal Tyler, Turin, Lewis Co., N. Y. (38). **D F**
Clancy, Michael Albert, 1426 Corcoran St., Washington, D. C. (40). **H**
Clapp, Geo. H., 116 Water St., Pittsburg, Pa. (33). **H C**
Clark, Alex. S., Westfield, N. J. (33).
Clark, Edward, 417 Fourth St., Washington, D. C. (40).
Clarke, John Mason, Ass't State Geol. and Paleontologist of N. Y., State Hall, Albany, N. Y. (45). **E**
Clark, Joseph E., M.D., 184 Clinton St., Brooklyn, N. Y. (43). **A E**
Clark, Oliver Durfee, 590 Halsey St., Brooklyn, N. Y. (41). **F E**
Clark, S. Wellman, M.D., 110 Mercer St., Jersey City, N. J. (44). **H**
Clarke, Sherman, 805 Wilder Building, Rochester, N. Y. (41). **C**
Clark, Thomas H., 22 Lancaster St., Worcester, Mass. (40).
Clark, Wm. Brewster, M.D., 50 E. 31st St., New York, N. Y. (33). **F C**
Clough, Albert L., S.B., Box 14, Manchester, N. H. (45). **B**
Cluett, J. W. Alfred, Troy, N. Y. (43).
Cobleigh, Wm. Merriam, E.M., Bozeman, Mont. (45). **C**
Coe, Henry W., M.D., The Marquam, Portland, Oregon (32). **H F**
Coffin, Amory, Phœnixville, Chester Co., Pa. (31). **D**
Coit, J. Milner, Ph.D., Saint Paul's School, Concord, N. H. (33). **B C E**
Colgate, Abner W., Morristown, N. J. (44).
Colie, Edw. M., East Orange, N. J. (30). **E I**
Collie, Prof. Geo. L., Beloit College, Beloit, Wis. (42). **E**
Collin, Rev. Henry P., Coldwater, Mich. (37). **F**
Colton, Buel P., Normal, McLean Co., Ill. (34). **F**
Comstock, Dr. T. Griswold, 3401 Washington Ave., St. Louis, Mo. (29). **F H**
Conant, Miss E. Ida, 42 West 48th St., New York, N. Y. (33). **H I F**
Conklin, Prof. Roland E., A.M., Eureka College, Eureka, Ill. (42). **F**
Cook, Dr. Charles D., 133 Pacific St., Brooklyn, N. Y. (25).
Cook, Melville T., Greencastle, Ind. (45). **G**
Coon, Henry C., M.D., Ph.D., Alfred Univ., Alfred, N. Y. (29). **B C F**
Cope, Thos. P., Awbury, Germantown, Pa. (33). **I**
Copeland, Edwin Bingham, Monroe, Wis. (45). **G**
Coquillett, Daniel William, Dep't of Agric., Washington, D. C. (43). **F**
Corbitt, James H., University of Virginia, Charlottesville, Va. (44).
Corcoran, Dr. Luke, Maple St., Springfield, Mass. (44). **H**
Cowell, Jno. F., Buffalo, N. Y. (35).
Cowles, Alfred H., 656 Prospect St., Cleveland, Ohio (37). **B C**
Cowles, James Lewis, Farmington, Conn. (44).
Cox, Charles F., Pres. Council Scientific Alliance of New York, Grand Central Depot, New York, N. Y. (43).
Crafts, Robert H., 2329 So. 6th St., Minneapolis, Minn. (32). **I B**

Craig, John, Horticulturist, Exper. Farms, Ottawa, Ontario, Can. (41).
Crawford, John, Leon, Nicaragua, C. A. (40). **E H**
Crawley, Edwin S., Ph.D., Springfield Ave , Chestnut Hill, Philadelphia, Pa. (45).
CROWELL, A. F., Woods Holl, Mass. (30). **C**
Cruikshank, James, LL.D., 206 So. Oxford St , Brooklyn, N. Y. (36).
Cunningham, Francis A., 1613 Wallace St., Philadelphia, Pa. (33). **D E B**
Cunningham, Prof. Susan J., Swarthmore College, Swarthmore, Pa. (38). **A**
Cuntz, Johannes H., 325 Hudson St., Hoboken, N. J. (36).
Curtis, William E., Post Building, Washington, D. C. (40). **H I**
Cutler, Dr. Andrew S., Kankakee, Ill. (32). **I E**

DALY, HON. CHARLES P., 84 Clinton Place, New York, N. Y. (36). **E H**
Daniells, Prof. William W., Univ. of Wis., Madison, Wis. (42). **C**
Davenport, Prof. Eugene, Dean of the Coll. of Agric., Univ. of Ill., Champaign, Ill. (39).
Davidson, R. J., Experiment Station, Blacksburgh, Va. (40). **C**
Davis, Abial B., A.M., 129 East Lincoln Ave., Mt. Vernon, N. Y. (44). **A**
Davis, Bradley Moore, Dep't of Botany, Univ. of Chicago, Chicago, Ill. (45). **G**
Davis, G. C., Agricultural College, Mich. (43).
Davis, J. J., M.D., 1119 College Ave., Racine, Wis. (31). **F G**
Davison, John M., 60 Oxford St., Rochester, N. Y. (38). **C**
Dean, Seth, Glenwood, Iowa (34). **D**
DeCourcy, Bolton Waller, 911 North 10th St., Tacoma, Washington (41). **I D**
Deeds, Edward A., Denison Univ., Granville, Ohio (45). **B**
DeForest, Henry S. (32). **H I**
Deghuée, Joseph A., 247 Harrison St., Brooklyn, N. Y. (40). **C**
Delafield, Maturin L., jr., Fieldston, Riverdale, New York, N. Y. (43). **G**
Densmore, Prof. H. D., Beloit, Wis. (41). **G**
Dewey, L. H., Dept. of Agric., Washington, D. C. (40). **F**
Dinsmore, Prof. Thos. H., Jr., Emporia, Kan. (29). **B C**
Dittenhoefer, A. J., 96 Broadway, New York, N. Y. (36).
Dodge, Charles Wright, M.S., University of Rochester, Rochester, N. Y. (39). **F**
Dodge, Melvin Gilbert. Hamilton College, Clinton, N. Y. (42). **C**
Dodge, Philip T., Tribune Building, New York, N. Y. (44). **B D**
Dodge, Wm. C., 116 B St., N. E., Washington, D. C. (40). **H**
Doty, P. A., 168 Broadway, Long Branch, N. J. (43). **D**
Doubleday, H. H., 715 H St., N.W., Washington, D. C. (40). **H**
Doughty, John W., 165 Johnston St., Newburgh, N. Y. (19). **E**
Dow, Mrs. Frederick C., care L. M. Dow, Calumet Club, Manchester, N. H. (42). **E F G H**
Drescher, Willibald A. E., P. O. Drawer 1033, Rochester, N. Y. (41). **F**
Drummond, Isaac Wyman, Ph.D., 436 W. 22nd St., New York, N.Y. (36).

Dryer, Chas. R., Fort Wayne, Ind. (38). **E**
Duffy, Rev. James S., 474 Sackett St., Brooklyn, N. Y. (43).
Duggar, Benjamin Minge, Cornell Univ., Ithaca, N. Y. (45).
Du Prè, Prof. Daniel A., Wofford College, Spartanburg, S. C. (28). **B C E**
Durand, Elias J., Ithaca, N. Y. (41). **G**
Durfee, W. F., Birdsboro, Berks Co., Pa. (33). **D C B A E I**
Dyar, Harrison G., A.M., Ph.D., 243 W. 99th St., New York, N. Y. (43).
Dyer, Clarence M., Lawrence, Mass. (22).

Edelheim, Carl, 253–259 N. Broad St., Philadelphia, Pa. (33).
Edson, Hubert, Patterson, La. (40).
Edwards, J. W., P. O. Box 282, Rico, Col. (32).
Edwards, W. F., 535 Boylston St., Seattle, Wash. (33). **B C**
Ekeley, Prof. John B., The Cathedral School of Saint Paul, Garden City, L. I. (42). **C**
Ellms, Joseph Wilton, Framingham Center, Mass. (44). **C**
Emery, Frank E., No. Caro. Experiment Station, Agric. and Mechan. Coll., Raleigh, N. C. (38). **F**
English, Geo. L., 733 Broadway, New York, N. Y. (36).
ESTES, DANA, Brookline, Mass. (29). **I H**
Evans, Alexander W., M.D., 12 High St., New Haven, Conn. (45) **G**
Evans, Samuel G., 211 Main St., Evansville, Ind. (39). **F**
Evers, Edward, M.D., 1861 North Market St., St. Louis, Mo. (28). **F H**
Ewell, Marshall D., M.D., Rooms 613 and 614, Ashland Block, 59 Clark St., Chicago, Ill. (40).

Fairchild, B. T., P. O. Box 1120, New York, N. Y. (36).
Fairfield, W. B., U. S. C. and G. Survey, Washington, D. C. (40). **E**
Falconer, William, Schenley Park, Pittsburgh, Pa. (29).
Fearey, Thomas Healey, 901 D. S. Morgan Building, Buffalo, N. Y. (45). **B**
Felt, Ephraim Porter, Northboro, Mass. (44). **F**
Fernald, F. A., 72 Fifth Ave., New York, N. Y. (43). **C**
Ferris, Mrs. Clarence C., Madison Square, New York, N. Y. (36). **E**
Fireman, Peter, Ph.D., The Columbian Univ., Washington, D. C. (45).
Fischer, E. G., U. S. Coast and Geodetic Survey, Washington, D. C. (40). **A**
Fisher, Geo. E., 37 and 39 Wall St., New York, N. Y. (37).
Flanders, Charles S., Franklin, Mass. (42). **E**
Fletcher, C. R., 82 Equitable Building, Boston, Mass. (29). **C E**
Floody, Rev. Robert John, Sc M., S.T.B., South Ashburnham, Mass. (44). **H**
Focke, Theodore M., 80 So. Professor St., Oberlin, Ohio (44). **B**
Forwood, Dr. W. H., Soldiers' Home, Washington, D. C. (40).
Frankforter, Prof. Geo. B., The Univ. of Minnesota, Minneapolis, Minn. (43). **C**
Freeman, Prof. T. J. A., Woodstock Coll., Howard Co., Md. (33). **B C**

Freley, Prof. Jasper Warren, Wells Coll., Aurora, Cayuga Co., N. Y. (45). **B E**
Frick, Prof. John H., Central Wesleyan Coll., Warrenton, Mo. (27). **E F B A**
Fries, Dr. Harold H., 92 Reade St., New York, N. Y. (40). **C**
Frisbie, J. F., M.D., Box 455, Newton, Mass. (29). **E H**
FROTHINGHAM, MRS. LOIS R., Milton, Mass. (31). **F A I**
Fulcomer, Daniel, Prof. Psychology and Pedagogy, State Normal School, Milwaukee, Wis. (46). **H**
Fuller, Chas. G., M.D., 38 Central Music Hall, Chicago, Ill. (35). **F**
Fuller, Levi K., Brattleboro, Vt. (34). **D A**
Fuller, Melville W., LL.D., Chief Justice U. S., 1800 Mass. Ave., Washington, D. C. (40).
Furbish, Miss Kate, 13 Lincoln St., Brunswick, Me. (44). **G**

Gable, George D., Ph.D., Parsons College, Fairfield, Iowa (40). **A B**
Galloway, Prof. Thomas Walton, Missouri Valley Coll., Marshall, Mo. (45). **F G**
Gardner, Rev. Corliss B., Ripley, N. Y. (29). **A B I**
GARLAND, JAMES, 2 Wall St., New York, N. Y. (36).
Garman, Harrison, Lexington, Ky. (38).
Garnett, Algernon S., M.D., Hot Springs, Ark. (23).
Garnier, Madame Laure Russell, 715 Fifth Ave., New York, N. Y. (40).
Gates, Nelson J., 1141 Dean St., Brooklyn, N. Y. (43).
Gault, Franklin B., Univ. of Idaho, Moscow, Idaho (43).
Gause, Frederick T., 128 Pearl St., New York, N. Y. (40).
Gay, Miss E. J., 214 1st St., S. E., Washington, D. C. (44). **H**
GENTH, FRED. A., Lansdowne, Del. Co., Pa. (32). **C E**
Georgeson, Charles C., M.Sc., Manhattan, Kan. (42). **I**
Gerrodette, Frank Honoré, 9 W. 31st St., New York, N. Y. (45). **H E I**
Getman, Frederick H., 196 Atlantic St., Stamford, Conn. (45). **B**
Gibbons, John T., M.D., U. S. N., 1297 Bushwick Ave., Brooklyn, N. Y. (43). **E**
Gilson, George Fredom, Pleasanton, Alameda Co., Cal. (41). **H**
GLENNY, WILLIAM H., JR., Buffalo, N. Y. (25).
Golden, Miss Katherine E., Lafayette, Ind. (42). **G**
Goldsborough, W. E., M.E., 164 Columbia St., Lafayette, Ind. (44). **D**
Goodnow, Henry R., 95 Riverside Drive, New York, N. Y. (32). **B**
Goodridge, E. A., M.D., 85 Maine St., Flushing, N. Y. (36).
Goodyear, William H., 222 E. 69th St., New York, N. Y. (43).
Gottlieb, J. Adelphi, A.M., M.D., Sc.D., 304 W. 104th St., New York, N. Y. (43). **C E F G H I**
Gould, Sylvester C., Manchester, N. H. (22). **A B E H**
Grabau, Amadeus W., S.B., Mass. Inst. Technology, Boston, Mass. (45).
Graef, Edw. L., 58 Court St., Brooklyn, N. Y. (28). **F**
Graf, Louis, Van Buren, Crawford Co., Ark. (30). **E F H**
Green, Edgar Moore, M.D., Easton, Pa. (36).
Greene, Prof. Edward Lee, Univ. of Cal., Berkeley, Cal. (42). **G**

Greene, G. K., 195 West 1st St., New Albany, Ind. (38).
Greene, Jacob L., Pres. Mut. Life Ins. Co., Hartford, Conn. (23).
Greene, Jeannette B., M.D., Sci.D., F.E.C., 56 W. 55th St., New York, N. Y. (33). **F E C**
Green, Milbrey, M.D., 567 Columbus Ave., Boston, Mass. (29).
Greenleaf, John T., Owego, N. Y. (33). **F**
Greenleaf, R. P., M.D., 803 Market St., Wilmington, Del. (31). **B F**
Greve, Theodor L. A., M.D., 260 W. 8th St., Cincinnati, Ohio (30)
Griscom, Wm. W., Haverford College P. O., Pa. (33). **B C D**
Grower, George G., Ansonia, Conn. (43). **B D**
Gruener, Hippolyte, Adelbert College, Cleveland, Ohio (44)
Gulliver, F. P., Norwich, Conn. (40). **E**
Gunckel, Lewis W., 435 W. Second St., Dayton, Ohio (41). **B**
Gurley, Wm. F. E., Danville, Vermilion Co., Ill. (37). **E**
Guthe, Karl E., Ph.D., Instructor in Physics, University of Michigan, 36 Kingsley St., Ann Arbor, Mich. (45). **B D**

Hacker, William, General Offices, Penn. R. R. Co., Philadelphia, Pa. (33). **F E**
Hagemann, John, 125 Rusk St., Houston, Texas (29). **C**
Hagar, Stansbury, 372 Washington Ave., Brooklyn, N. Y. (43).
Haight, Stephen S., C.E., 1266 Clover St., West Farms, New York, N. Y. (31). **D**
Hale, George D., 5 Gibbs St., Rochester, N. Y. (41).
Hall, James P., 6 Poplar St., Brooklyn, N. Y. (40). **A B**
Hall, Winfield S., M.D., Northwestern Univ. Medical School, 2421–2431 Dearborn St., Chicago, Ill. (40).
Halstead, D. B., 335 Washington Ave., Brooklyn, N. Y. (43).
Hammon, W. H., Forecast Official, Weather Bureau, San Francisco, Cal. (37). **B**
Harmon, Miss A. Maria, 189 Maclaren St., Ottawa, Ontario, Can. (31). **H F**
Harper, Henry Winston, M.D., Univ. of Texas, Austin, Texas (45). **C**
Harrington, Prof. Mark W., Pres. Univ. of Washington, Seattle, Wash. (40). **B**
Harris, Prof. Elmo G., Missouri School of Mines, Rolla, Mo. (43).
Harris, Miss Emma G., Woonsocket, R. I. (44). **H F E**
Harris, I. H., Waynesville, Warren Co., Ohio (30). **E H**
Harrison, Caleb N., 1010 N. Arlington Ave., Baltimore, Md. (42). **A B**
Harrison, Miss Carrie, 1413 N St., N. W., Washington, D. C. (42). **G**
Harrison, Edwin, 520 Olive St., Room 620, St. Louis, Mo. (11). **E**
Hart, C. Porter, M.D., Wyoming, Hamilton Co., Ohio (30). **F**
Hart, Rev. Prof. Samuel, Trinity College, Hartford, Conn. (22). **A**
Hartz, J. D. Aug., College Point, N. Y. (43).
Harvey, A. F., Kirkwood, Mo. (40).
Haynes, Prof. Arthur E., The Univ. of Minnesota, Minneapolis, Minn. (45).
Hays, Joseph A., Ph.G., 147 So. 18th St., Pittsburgh, Pa. (44). **B C G H**

Hays, Prof. Willet M., Saint Anthony Park, Saint Paul, Minn. (45).
Haywood, Prof. John, Otterbein Univ., Westerville, Ohio (30). **A B**
Head, W. R., 5467 Jefferson Ave., Hyde Park, Chicago, Ill. (38). **E**
Hedge, Fred. H., Public Library, Lawrence, Mass. (28). **F H**
Henderson, Mrs. Alice Palmer, 2301 Clinton Ave., Minneapolis, Minn. (42). **H**
Henry, Chas. C., M.D., 56 Clark St., Brooklyn, N. Y. (43).
Hershey, Oscar H. (42). **E**
Hertzberg, Prof. Constantine, 181 S. Oxford St., Brooklyn, N. Y. (29). **B F**
HEXAMER, C. JOHN, C.E., 419 Walnut St., Philadelphia, Pa. (33). **C B**
Heyer, Wm. D., 16 South Reid St., Elizabeth, N. J. (33). **B D**
Hice, Richard R., Beaver, Beaver Co., Pa. (41). **E**
Hicks, Gilbert H., 2221 15th St., N. W., Washington, D. C. (43).
Higbee, H. H., Johns Hopkins Univ., Baltimore, Md. (43).
Higley, Warren, 32 Nassau St., New York, N. Y. (43).
Hill, John Edward, Brown Univ., Providence, R. I. (44). **D**
Hinton, John H., M.D., 41 West 32nd St., New York, N. Y. (29). **F H**
Hitchcock, Miss Fannie R. M., 300 William St., E. Orange, N. J. (35). **F**
Hoadley, Geo. A., A.M., Swarthmore College, Swarthmore, Pa. (40).
Hobbs, Prof. Perry L., Western Reserve Medical College, Cleveland, Ohio (41). **C**
Hodge, J. M., Big Stone Gap, Va. (29). **D E**
Hodges, Julia, 139 W. 41st St., New York, N. Y. (36). **E F H**
Hodskins, Miss G. A., Springfield, Mass. (44). **F G**
HOE, MRS. R., JR., 11 E. 36th St., New York, N. Y. (36).
Hoe, Mrs. Richard M., 11 E. 71st St., New York, N. Y. (36).
Hoeltge, Dr. A., 322 Lime St., Cincinnati, Ohio (30).
Hoffman, The Rev. Eugene Aug., D.D., Dean of Gen. Theol. Seminary, 426 W. 23d St., New York, N. Y. (36).
Holden, E. F., 530 W. Onondaga St., Syracuse, N. Y. (43). **A**
Holden, L. E., The Hollenden, Cleveland, Ohio (32).
HOLDEN, MRS. L. E., The Hollenden, Cleveland, Ohio (35).
Holley, George W., Ithaca, N. Y. (19). **B I**
Hollingsworth, Jno. E., Austin, Texas (40).
Hollinshead, Warren H., Vanderbilt Univ., Nashville, Tenn. (37).
Holmes, W. Newton, Pritchett School Inst., Glasgow, Mo. (36).
Holstein, Geo. Wolf, Albany, Shackelford Co., Texas (28). **E H**
Holt, Henry, 29 West 23d St., New York, N. Y. (29).
Holton, Henry D., Brattleboro, Vt. (44). **I**
Homburg, Frederick, 40 Clifton Ave., Cincinnati, Ohio (39). **C**
Homer, Chas. S., jr., of Valentine & Co., 245 Broadway, New York, N. Y., (29).
Hood, Gilbert E., Lawrence, Mass. (29). **H E B**
Hood, William, 512 Van Ness Ave., San Francisco, Cal. (35). **D**
Hooker, Prof. Henrietta E., Mt. Holyoke Coll., South Hadley, Mass. (45) **G**

Hooper, Prof. Franklin W., Curator Brooklyn Inst., Brooklyn, N. Y. (43).
Hopkins, A. D., Exper. Station, Morgantown, W. Va. (42). **F**
Hopkins, Prof. A. J., Amherst College, Amherst, Mass. (44). **C**
Hopkins, Grant S., Ithaca, N. Y. (41). **F**
Hopkins, Thos. C., Geologist, State College, Centre Co., Pa. (38). **E**
Horsford, Miss Cornelia, 27 Craigie St., Cambridge, Mass. (43). **H**
Hoskins, William, La Grange, Cook Co., Ill. (34). **C**
Hotchkiss, Homer J., Cornell Univ., Ithaca, N. Y. (45). **B**
Hough, Romeyn B., Lowville, N. Y. (37).
Howe, Lucien, M.D., 183 Delaware Ave., cor. Huron St., Buffalo, N. Y. (45).
Hoyt, James T., Temple Court, Beekman St., New York, N. Y. (38). **A H**
Hudson, George H., Plattsburgh, Clinton Co., N. Y. (31). **F**
Hume, Alfred, C. E., University, Miss. (39). **A**
Humphrey, Daniel, M.D., Lawrence, Mass. (18). **F H**
Humphrey, James Ellis, Johns Hopkins Univ., Baltimore, Md. (44). **G**
Hungerford, W. S., care W. Ames & Co., Jersey City, N. J. (43). **D**
Hunt, J. H., M.D., 1085 Bedford Ave., Brooklyn, N. Y. (43).
Hunt, Richard M., Metropolitan Building, 1 Madison Ave., New York, N. Y. (36).
Hunt, Miss Sarah E., Salem, Mass. (20).
Hunter, Prof. Joseph Rufus, Richmond Coll., Richmond, Va. (45). **C**
Huntington, Elon, 762 N. St. Paul St., Rochester, N. Y. (41). **B E**
Huntington, F. W., Montclair, N. J. (45). **B**
Hurd, E. O., Plainville, Hamilton Co., Ohio (30). **E F**
Hutchinson, Wm. M., M.D., 207 Clinton St., Brooklyn, N. Y. (40). **C B**
Hyde, B. T. B., 20 W. 53d St., New York, N. Y. (43). **D**
Hyde, E. Francis, 835 Fifth Ave., New York, N. Y. (43). **A**
Hyde, Frederick E., M.D., 20 W. 53d St., New York, N. Y. (43). **E**
Hyde, Frederick E., jr., 20 W. 53d St., New York, N. Y. (43). **H**

Iles, George, 5 Brunswick St., Montreal, Can. (31). **I**
Ingham, Wm. A., 320 Walnut St., Philadelphia, Pa. (33). **E I**
Innes, Murray, care O. D. Copper Mining Co., Globe, Arizona (45).
Irwell, Lawrence, 76 West Tupper St., Buffalo, N. Y. (45). **F**
Ives, Frederick E., 2750 N. 11th St., Philadelphia, Pa. (44). **B**
Ives, James T. B., Philadelphia, Pa. (43). **E**

James, Bushrod W., M.D., N. E. cor. 18th and Green Sts., Philadelphia, Pa. (29). **F**
James, Davis L., 131 West 7th St., Cincinnati, Ohio (30). **F**
Jefferis, Wm. W., 1836 Green St., Philadelphia, Pa. (33). **E**
Jenks, Wm. H., Brookville, Pa. (38).
Jenner, Charles H., Prof. of Natural and Applied Sciences, Brockport, N. Y. (41). **A B D**
Jennings, Walter L., 900 Beacon St., Boston, Mass. (45).
Jewett, Dr. Frederic A., 282 Hancock St., Brooklyn, N. Y. (43).

Johnson, Henry Clark, 27 and 29 Pine St., New York, N. Y. (42). **I**
Johnson, Dr. Henry L. E., 1400 L St., N. W., Washington, D. C. (40). **F**
Johnson, Lorenzo N., Boulder, Col. (39). **F**
Johnson, Nels, Manistee, Mich. (41). **A B**
Johnson, Roswell Hill, 234 Highland Ave., Buffalo, N. Y. (44). **F H G**
Jones, Prof. Forrest R., Univ. of Wisconsin, Madison, Wis. (42). **D**
Jones, Prof. Frederick S., The Univ. of Minnesota, Minneapolis, Minn. (45).
Jones, Paul M., D.Sc., Nashville, Tenn. (40). **E F**
Jordan, Whitman H., Director N. Y. Agric. Exper. Station, Geneva, N. Y. (45).

Kastle, Prof. J. H., State Coll. of Kentucky, Lexington, Ky. (45).
Kedzie, John H., Evanston, Ill. (34). **B**
Keeler, Aaron Benedict, 70 N. Pearl St., Buffalo, N. Y. (45) **I**
Keep, Wm. J., Detroit, Mich. (37).
Keith, Walter J., Ph.D., State College, Pa. (44). **C**
Kelley, Henry S., 208 Wooster St., New Haven, Conn. (36). **D C**
Kelley, John Harris, Bentonville, Ark. (44). **C**
Kellogg, David S., M.D., Plattsburgh, N. Y. (29). **H**
Kellogg, John H., M.D., Battle Creek, Mich. (24). **F**
Kendrick, Prof. Arthur, Rose Polytechnic Inst., Terre Haute, Ind. (45). **B**
Kennedy, Dr. George Golding, Roxbury, Mass. (40). **F**
Kennedy, Harris, 284 Warren St., Roxbury, Mass. (40). **E F**
Kern, Josiah Quincy, Ph.D., P. O. Box 265, Treasury Dept., Washington, D. C. (40). **I**
Kinder, Miss Sarah A., 28 Lockerbie St., Indianapolis, Ind. (39). **H**
King, A. F. A., M.D., 1315 Mass. Ave., N. W., Washington, D. C. (29). **F H**
King, Miss Ada M., 8 Briggs Place, Rochester, N. Y. (39). **E I**
King, Miss Harriet M., Salem, Mass. (28).
Kingsbury, Prof. Albert, Durham, N. H. (43). **D**
Kingsbury, Benj. F., Ithaca, N. Y. (45). **F**
Kinner, Hugo, M.D., 1103 Rutger St., St. Louis, Mo. (21). **F H**
Kirkpatrick, Walter G., 2102 West End Ave., Nashville, Tenn. (41).
Kittredge, Miss H. A., North Andover, Mass. (37). **F**
Klie, G. H. Carl, M.D., 5100 No. Broadway, St. Louis, Mo. (39). **C F**
Kneeland, Stillman F., LL.D., 110 Berkeley Pl., Brooklyn, N. Y. (43). **I**
Knight, Chas. H., M.D., 20 W. 31st St., New York, N. Y. (36).
Knight, Prof. Charles M., 219 So. Union St., Akron, Ohio (29). **C B**
Knox, Wilm, Society for Savings Building, Cleveland, Ohio (38).
Koons, B. F., Storrs, Conn. (43).
Kost, John, LL.D., Adrian, Mich. (34). **E**
Koues, Miss Elizabeth L., The Cathedral School of Saint Mary, Garden City, N. Y. (41). **I**
Krécsy, Prof. Béla, Györ, Hungary (41). **C**
Kuhne, F. W., 19 Court St., Fort Wayne, Ind. (38). **A F**

Ladd, G. E., Bradford, Mass. (39). **E**
La Forge, Lawrence, Alfred Univ. Observ., Alfred, N. Y. (43).
Lambert, Preston A., 215 S. Center St., Bethlehem, Pa. (41). **A**
Lampard, Henry, 102 Shuter St., Montreal, Can. (40). **C D E**
LANDERO, CARLOS F. DE, Ass't Director, Pachuca and Real del Monte Mining Co., Pachuca, Mexico (36). **C B**
Lang, Prof. Henry R., Yale Univ., New Haven, Conn. (41). **H**
Langmann, Gustav, M.D., 115 W. 57th St., New York, N. Y. (36).
Lasché, Alfred (39). **C F G**
Latham, Woodville, 32 E. 21st St., New York, N. Y. (43).
Law, Benedict W., Pasadena, Cal. (45). **E**
Lawrance, J. P. S., Past Ass't Engineer, U. S. N., Navy Yard, Norfolk, Va. (35). **D**
Lawrence, Harry E., Rochester Univ., Rochester, N. Y. (44). **B**
Laws, Miss Annie, 100 Dayton St., Cincinnati, Ohio (30). **I**
Leavitt, R. G., Easthampton, Mass. (44). **B**
Lee, Mrs. William, 1382 Beacon St., Boston, Mass. (36).
Leeds, James S., 109 Produce Exchange, New York, N. Y. (41).
Leiter, L. Z., 81 South Clark St., Chicago, Ill. (40).
Lemp, William J., cor. Cherokee and 2nd Carondelet Avenue, St. Louis, Mo. (27).
Leslie, Geo. L., Head of Science Dept., High School, Los Angeles, Cal. (40).
Lewis, Geo. S., jr., Springfield, Mass. (44). **G**
Lewis, Joseph Volney, Prof. of Geol. and Mineral., Clemson College, S.C. (45). **E C**
Lewis, Wm. J., M.D. (33). **F E**
Lindenkohl, Adolphus, U. S. Coast and Geodetic Survey, Washington, D. C. (40). **E**
Lindsay, Alexander M., Rochester, N. Y. (41).
Livermore, Mrs. M. A. C., 1569 Mass. Ave., Cambridge, Mass. (29). **F**
Loewy, Benno, 206 and 208 Broadway, New York, N. Y. (41).
Logan, F. G., 2919 Prairie Ave., Chicago, Ill. (42). **H**
Logan, Walter S., 58 William St., New York, N. Y. (36).
Lomb, Adolph, P. O. Drawer 1033, Rochester, N. Y. (41).
Lomb, Henry, P. O. Drawer 1033, Rochester, N. Y. (41).
Lomb, Henry C., P. O. Drawer 1033, Rochester, N. Y. (43).
Lonsdale, Elston H., Ass't Missouri Geol. Survey, Jefferson City, Mo. (41). **E**
Lord, Benjamin, 34 W. 28th St., New York, N. Y (36).
Lord, Prof. H. C., Ohio State Univ., Columbus, Ohio (44). **A**
Loubat, le Duc de, 47 rue Dumont d'Urville, Paris, France (46). **H**
Lovejoy, Frederick W., 348 Hancock St., Brooklyn, N. Y. (43).
Low, A. A., Columbia Heights, Brooklyn, N. Y. (43). **A**
Lowell, Aug., 60 State St., Boston, Mass. (29).
Lowman, John H., M.D., 345 Prospect St., Cleveland, Ohio (37).
Ludlow, Lt. Col. Wm., Corps of Eng., U. S. A., Army Building, New York, N. Y. (33). **D B**

Lufkin, Albert, Newton, Iowa (31). **D E**
Lull, Richard S., Amherst, Mass. (43). **F H**
Lund, James, 142 Hawthorne St., Malden, Mass. (45).
LYMAN, BENJ. SMITH, 708 Locust St., Philadelphia, Pa. (15). **E**
Lyman, Henry H., 74 McTavish St., Montreal, P. Q., Can. (29). **F E**
Lyon, Edmund, 110 So. Fitzhugh St., Rochester, N. Y. (41).

MacArthur, Charles L., Troy, N. Y. (39).
McCammon, Gen. Joseph K., 1420 F St., Washington, D. C. (40).
McCartney, Dr. James H., Room 501, Granite Building, Rochester, N. Y. (41). **A B**
McClintock, A. H., Wilkes Barre, Pa. (33). **H**
McClintock, Frank, Grand Junction, Col. (43). **A B D**
McCormick, L. M., Curator Glen Island Mus. Nat. Hist., Glen Island, N. Y. (43).
McCulloch, Champe Carter, jr., Ph.D., M.D., Fort Ringgold, Texas (39). **E**
Mac Dougal, Daniel T., Univ. of Minnesota, Minneapolis, Minn. (44). **G**
McFadden, Prof. L. H., Westerville, Ohio (32). **B C**
McFarland, Robert W., LL.D., Oxford, Ohio (33). **A**
McGee, Miss Emma R., Farley, Iowa (33). **H**
McGiffert, James, 169 8th St., Troy, N. Y. (44). **A**
MacGregory, A. C., 36 Fremont St., Springfield, Mass. (43).
McHenry, Prof. B. F., Union Christian College, Merom, Ind. (39). **A E**
McLean, T. C., Lieut. U. S. N., New Hartford, Oneida Co., N. Y. (33).
McMillan, Smith B., Signal, Columbiana Co., Ohio (37).
McMillin, Emerson, 40 Wall St., New York, N. Y. (37).
McPherson, Prof. Wm., Ohio State Univ., Columbus, Ohio (45). **C**
McWilliams, D. W., 39 So. Portland Ave., Brooklyn, N. Y. (43).
Macdougall, Alan, 32 Adelaide St. East, Toronto, Ontario, Can. (38). **D H**
Macfarlane, Dr. John M., Lansdowne, Del. Co., Pa. (41). **F**
Magruder, Wm. T., Ohio State Univ., Columbus, Ohio (37).
Mallinckrodt, Edw., P. O. Sub-station A, St. Louis, Mo. (29). **C**
Malone, Rev. Sylvester, 69 So. 3d St., Brooklyn, N. Y. (43).
Mann, Abram S., Rochester, N. Y. (39). **E**
Mann, Albert, Ph.D., Ohio Wesleyan Univ., Delaware, Ohio (43). **F G**
Mann, Thomas Wm., 35 Hampden St., Holyoke, Mass. (44). **D**
Manning, Charles H., U. S. N., Manchester, N. H. (35). **D**
Manning, Warren H., Brookline, Mass. (31). **F H E**
Mapes, Charles Victor, 60 W. 40th St., New York, N. Y. (37). **C**
MARBLE, MANTON, 532 Fifth Ave., New York, N. Y. (36).
Marble, J. Russel, Worcester, Mass. (31). **C E**
Marble, Miss Sarah, Woonsocket, R. I. (29). **C**
Marindin, Henry Louis, U. S. Coast and Geodetic Survey, Washington, D. C. (40). **E**
Markley, Joseph L., Ph.D., 50 Thompson St., Ann Arbor, Mich. (40).
Marple, Charles A., 717 W. Chestnut St., Louisville, Ky. (39). **B**

Marsden, Samuel, 1015 North Leffenwell Ave., St. Louis, Mo. (27). **A D**
Mateer, Horace N., M.D., Wooster, Wayne Co., Ohio (36). **F E**
Mathews, Miss Mary Elizabeth, Lake Erie Seminary, Painesville, Ohio (41). **F**
Mattison, Joseph G., 20 West 14th St., New York, N. Y. (30). **C**
Mattoon, Laura I., Springfield, Mass. (44). **F**
Maxwell, Henry W., 70 First Place, Brooklyn, N. Y. (43).
Maynard, Geo. C., 1227 19th St., Washington, D. C. (35). **B D**
Maynard, Prof. Samuel T., Agricultural College, Amherst, Mass. (38).
Maynard, Washburn, Lieut. Com'd U. S. N., Bureau of Ordnance, Navy Dep't, Washington, D. C. (33). **B**
Means, John H., Cal. State Mining Bureau, 24 Fourth St., San Francisco, Cal. (38). **E**
Meeds, Alonzo D., Univ. of Minnesota, Minneapolis, Minn. (42).
Meehan, Mrs. Thos., Germantown, Pa. (29).
Mellor, Chas. C., 77 Fifth Ave., Pittsburgh, Pa. (38).
Merrick, Hon. Edwin T., P. O Box 606, New Orleans, La. (29). **E A**
Merrill, Miss Harriet Bell, 661 Jackson St., Milwaukee, Wis. (43). **F**
Merrill, Mrs. Winifred Edgerton, Ph.D., 2 Sprague Place, Albany, N. Y. (35). **A**
Merrow, Miss Harriet L., Kingston, R. I. (44).
Merryweather, George N., cor. 6th and Race Sts., Cincinnati, Ohio (30). **F H**
METCALF, ORLANDO, 424 Telephone Building, Pittsburgh, Pa. (35). **D**
Metzler, Wm. H., Ph.D., Syracuse Univ., Syracuse, N. Y. (45).
Miller, Prof. Arthur M., State College, Lexington, Ky. (45) **E**
Miller, Prof. Dayton C., Case School of Applied Science, Cleveland. Ohio (44). **B**
MILLER, EDGAR G., 213 E. German St., Baltimore, Md. (29). **E F A**
Miller, Prof. Frank E., Westerville, Ohio (44). **A**
Miller, John A., 2500 Park Ave., Cairo, Ill. (22). **D**
Minns, Miss S., 14 Louisburg Square, Boston, Mass. (32).
Mitting, E. Kennard, 416 Huron St., Chicago, Ill. (40).
Mixer, Fred. K., 427 Delaware Ave., Buffalo, N. Y. (35). **E**
Mohler, John F., Dickinson Coll., Carlisle, Pa. (44). **B**
Molson, John H. R., Montreal, P. Q., Can. (31).
Moody, Lucius W., New Haven, Conn. (43). **H**
Moody, Mrs. Mary B., M.D., Fair Haven Heights, New Haven, Conn. (25). **E F**
Moore, Burton E., Lincoln, Neb. (41). **B**
Moore, Clarence B., 1321 Locust St., Philadelphia, Pa. (44). **H**
Moore, Geo. D., Ph.D., Polytechnic Inst., Worcester, Mass. (40).
Moore, Prof. Willis L., Chief of Weather Bureau, Dept. of Agric., Washington, D. C. (44). **B**
Morehead, J. Turner, Spray, N. C. (44). **C**
Morgan, Wm. F., Short Hills, N. J. (27).

Moseley, Edwin L., A.M., High School, Sandusky, Ohio (34).
Moss, Mrs. J. Osborne, Sandusky, Ohio (35). **F**
Moulton, Prof. Chas. W., Poughkeepsie, N. Y. (44). **C**
Mowry, Wm. A., 17 Riverside Square, Hyde Park, Mass. (29). **I**
Moxom, Philip Stafford, D.D., Springfield, Mass. (44). **H I**
Muckey, Floyd S., care W. Hallock, Columbia College, New York (44). **B**
Muir, John, Martinez, Cal. (22).
Mulford, Miss A. Isabel, Missouri Botanical Garden, St. Louis, Mo. (45). **G**
Mulliken, Samuel P., 46 High St., Newburyport, Mass. (43).
Munson, Prof. Welton M., Maine State College, Orono, Me. (41).
Murphy, Edward, M.D., New Harmony, Ind. (39). **C**
Myer, Mrs. Isaac, 21 E. 60th St., New York, N. Y. (44).
Myers, William S., S.B., F.C.S., Rutgers Coll., New Brunswick, N. J. (43). **C**
Myrick, Herbert, Springfield, Mass. (44).

Needham, James G., Cornell Univ., Ithaca, N. Y. (45). **F**
Neff, Peter, jr., Consulting Eng. and Supt., Room 3, 87 Public Square, Cleveland, Ohio (34) **B**
Nelson, Julius, Ph.D., Rutgers College, New Brunswick, N. J. (43).
Nelson, Wm., Rooms 7 and 8, Paterson Nat'l Bank, Paterson, N. J. (42).
Nesmith, Henry E., jr., 28 South St., New York, N. Y. (30). **B F C**
Newson, John F., Ass't Prof. Geol., Univ. of Indiana, Bloomington, Ind. (44). **E**
Nichols, Austin P., 4 Highland Ave., Haverhill, Mass. (37).
Nichols, Miss Mary A. (45).
Niven, William, 853 Broadway, New York, N. Y. (44).
Norton, Prof. Wm. H., Mt. Vernon, Iowa (39). **E**
Nourse, Prof. David O., Blacksburgh, Va. (43).
Noyes, Prof. Arthur A., Mass. Inst. Technology, Boston, Mass. (45). **C**
Nunn, R. J., M.D., 119 York St., Savannah, Ga. (33). **B H**

O'Connor, Joseph, 146 Frank St., Rochester, N. Y. (41 .
Olds, Prof. George D., Amherst, Mass. (38). **A**
O'Neill, Wm. Lane, Downing Building, New York, N. Y. (43).
Orleman, Miss Daisy M., M.D., Peekskill Military Acad., Peekskill, N. Y. (40). **F**
Osborne, Amos O., Waterville, Oneida Co., N. Y. (19). **E**
Osgood, Joseph B. F., Salem, Mass. (31).
Ostrander, Mrs. Sarah E., 910 Lafayette Ave., Brooklyn, N. Y. (43).
O'Sullivan, Rev. Denis T., S.J., 27 and 29 W. 16th St , New York, N. Y. (40). **B A**
Oviatt, David B., Georgia School of Technology, Atlanta, Ga. (40). **D**
Owen, Prof. D. A., Franklin, Ind. (34). **E**

Page, Dr. Dudley L., 46 Merrimack St., Lowell, Mass. (33). **F**
Page, Mrs. Nellie K., 46 Merrimack St., Lowell, Mass. (33). **F**

Palmer, Dr. Edward, care F. V. Coville, Dep't of Agric., Washington, D. C. (22). **H**
Palmer, Hon. Thomas W., Detroit, Mich. (46).
Park, Dr. Roswell, Pres. Buff. Soc. Nat. Hist., 510 Delaware Ave., Buffalo, N. Y. (45). **H**
Parker, Harriet P., 2 Grace Court, Brooklyn, N. Y. (43).
Parker, Herschel C., 21 Fort Greene Place, Brooklyn, N. Y. (43).
Parks, C. Wellman, U. S. Patent Office, Washington, D. C. (42).
Parks, Prof. R. M., Bedford, Ind. (39). **C**
Parmelee, H. P., Charlevoix, Mich. (42). **H E**
PARSONS, JNO. E. (36).
Patten, John, care The E. D. Onion Ice Co., Baltimore, Md. (43).
Patterson, Mrs. Flora Wambaugh, Ass't Pathologist, Dep't of Agric., Washington, D. C. (44). **G**
Patterson, Prof. James L., Union Coll., Schenectady, N. Y. (45).
Patton, Horace B., Golden, Col. (37). **E**
Paul, Caroline A., M.D., Vineland, Cumberland Co., N. J. (23).
Payne, Frank Fitz, Meteorological Office, Toronto, Ontario, Can. (38).
Peale, Albert C., M.D., U. S. Geol. Survey, Washington, D. C. (36). **E**
Peck, Mrs. Emma J., 44 Billings Park, Newton, Mass. (40).
Peck, Mrs. John H., 3 Irving Place, Troy, N. Y. (28).
Peck, W. A., C.E., 1051 Clarkson St., Denver, Col. (19). **E**
Peckham, Wheeler H., Drexel Building, Wall St., New York, N. Y. (36).
Pedrick, Miss Catherine F., Lawrence, Mass. (43).
Peirce, Cyrus N., D.D.S., 1415 Walnut St., Philadelphia, Pa. (31). **F**
Peirce, George James, Botanical Dep't, The Univ. of Indiana, Bloomington, Ind. (44). **G**
Pell, Alfred, Highland Falls, N. Y. (36).
PERKINS, ARTHUR, 14 State St., Hartford, Conn. (31). **B A**
Perkins, Frank K., Principal Grammar School No. 26, Gates Ave., near Ralph, Brooklyn, N. Y. (43).
Perry, Hon. Andrew J., 30 First Place, Brooklyn, N. Y. (43).
Petitdidier, O. L., Mt. Carmel, Ill. (39). **A B D**
Pettee, Rev. J. T., Meriden, Conn. (39).
Pettegrew, David Lyman, P. O. Box 75, Worcester, Mass. (44). **A**
Pfister, Joseph Clement, 240 Sixth Ave. (Roseville), Newark, N. J. (43).
Phillips, Orville P., University, Los Angeles Co., Cal. (43).
Pickett, Dr. Thos. E., Maysville, Mason Co., Ky. (25). **H F**
Pickett, W. D., Wise, Big Horn Co., Wyo. (41). **D I**
Pierce, Josiah, jr., 922 Equitable Building, Baltimore, Md. (40). **E**
PIERREPONT, HENRY E., 216 Columbia Heights, Brooklyn, N. Y. (43).
Pike, J. W., Mahoning, Portage Co., Ohio (29). **E C F**
Pilling, J. W., 1301 Mass. Ave., Washington, D. C. (40).
Pillsbury, J. E., Lieut. U. S. N., care Dr. W. L. Richardson, 225 Commonwealth Ave., Boston, Mass. (33). **E B**
Pinney, Mrs. Augusta Robinson, 350 Central St., Springfield, Mass. (44). **F G**

Pitkin, Lucius, 138 Pearl St., New York, N. Y. (29).
Pitt, Prof. William H., 2 Arlington Place, Buffalo, N. Y. (25).
Place, Edwin, Terre Haute, Ind. (33). **B**
Pollard, Charles Louis, 1839 5th St., N. W., Washington, D. C. (44). **G**
Pomeroy, Charles Taylor, cor. Passaic & Reynolds Ave's, East Newark, N. J. (43).
Pope, Edward S., 235 Blackford St., Indianapolis, Ind. (39).
Porteous, John, 176 Falmouth St., Boston, Mass. (22).
Porter, Miss Edna, 77 Bryant St., Buffalo, N. Y. (41). **F G**
Porter, Prof. James Madison, Lafayette Coll., Easton, Pa. (45). **D**
Post, Prof. Charles M., Alfred Centre, N. Y. (39). **B**
Potter, Mrs. Charles B., 111 Spring St., Rochester, N. Y. (41). **H**
Potter, Rev. Henry C., 804 Broadway, New York, N. Y. (29).
Potter, Henry Noel, 111 Spring St., Rochester, N. Y. (41). **B**
POTTER, O. B., 26 Lafayette Place, New York, N. Y. (36).
Prang, Louis, 45 Centre St., Roxbury, Mass. (29). **D**
Price, J. Sergeant, 709 Walnut St., Philadelphia, Pa. (33).
Proctor, Miss Edna Dean, Framingham, Mass. (44). **H**
Proctor, Miss Mary, 29 E. 46th St., New York, N. Y. (43). **A**
Prosser, Col. Wm. F., North Yakima, Yakima Co., Washington (26). **E I**
PRUYN, JOHN V. L., JR., Albany, N. Y. (29).
Pulsifer, Mrs. C. L. B., Newton Centre, Mass. (33).
Putnam, Chas. P., M.D., 63 Marlborough St., Boston, Mass. (28). **H F**
Putnam, Miss Elizabeth D., 2013 Brady St., Davenport, Iowa (45).
Putnam, Henry Cleveland, Eau Clair, Wis. (43).
Putnam, Joseph E., 123 State St., Rochester, N. Y. (45). **B**
Pynchon, William Harry Chichelé, Trinity Coll., Hartford, Conn. (44). **E**

Quick, Robert W., Georgia School of Technology, Atlanta, Ga. (43).

Ramaley, Francis, Univ. of Minnesota, Minneapolis, Minn. (45). **G**
Rand, C. F., M.D., 1228 15th St. N. W., Washington, D. C. (27). **E H**
Randolph, Prof. L. S., Blacksburgh, Va. (33). **D**
Rane, Frank Wm., Exper. Station, Morgantown, W. Va. (42).
Reber, Prof. Louis E., State College, Centre Co., Pa. (35). **D**
Rèche, Miss Eugénie M., 31 Howell St., Rochester, N. Y. (41). **E H**
Redding, Prof. Allen C., 1000 No. Cory St., Findlay, Ohio (39). **C**
Redfield, William C., 107 Macon St., Brooklyn, N. Y. (44). **D**
Reed, Charles J., 3313 North 16th St., Philadelphia, Pa. (34). **C B**
Reed, John O., 34 E. Kingsley St., Ann Arbor, Mich. (44).
Reed, Taylor, Princeton, N. J. (38). **A**
Reichel, Rev. George V., Ph.D., Lock Box 85, Brockport, N. Y. (41) **F H**
Remington, Cyrus K., 11 E. Seneca St., Buffalo, N. Y. (35). **E**
Renninger, John S., M.D., Marshall, Minn. (31). **C F**
Reyburn, Robert, M.D., 2129 F St., N. W., Washington, D. C. (33). **F**
Reynolds, George, P. O. Box B, Salt Lake City, Utah (44). **H**
Rice, Arthur L., Pratt Institute, Brooklyn, N. Y., (43).
Rice, Edward L., A.B., Allegheny Coll., Meadville, Pa. (43).

Rice, Rev. William, Springfield, Mass. (44).
Rich, Jacob Monroe, 50 W. 38th St., New York, N. Y. (33). **B A**
Rich, Michael P., 50 W. 38th St., New York, N. Y. (40).
Ricketts, Col. R. Bruce, Wilkes Barre, Pa. (33). **E**
Rideout, Bates S., Norway, Me. (31). **E H**
Ries, Elias E., E. E., 1031 Temple Court, New York, N. Y. (33). **B I D**
Ries, Heinrich, Ph.B., Columbia College, New York, N. Y. (41). **E**
Riggs, Chauncey Wales, care of H. C. Warinner, 14 Madison St., Memphis, Tenn. (41). **H**
Riggs, Geo. W., Summit, N. J. (26). **C**
Ripley, William Z., Ph.D., Newton, Mass. (44). **H I**
Rittenhouse, Charles T., 253 Broadway, New York, N. Y. (46). **B D**
Ritter, Homer P., U. S. C. and G. Survey, Washington, D. C. (40).
Rivera, José de (29).
Roberts, Miss Jennie B., Round Hill, Conn. (43).
Robertson, James D. (41). **E**
Robertson, Thomas D., Rockford, Ill. (10). **E H**
Robinson, Prof. Otis Hall, 273 Alexander St., Rochester, N. Y. (23). **B A**
Rochester, DeLancey, M.D., 469 Franklin St., Buffalo, N. Y. (35). **F**
Rockwood, Charles G., Drawer A, Newark, N. J. (36).
Roessler, Franz, 73 Pine St., New York, N. Y. (39).
Rolfe, Charles W., Urbana, Ill. (32).
Rolfs, P. H., Florida Agricultural College, Lake City, Fla. (41).
Rolker, Charles M., 30 Broad St., New York, N. Y. (43). **D**
Roosevelt, Mrs. Marion T., 57 Fifth Avenue, New York, N. Y. (31). **H I**
Rosell, Claude A. O., 1131 9th St., N. W., Washington, D. C. (40).
Ross, Prof. Bennett Battle, A. & M. Coll., Auburn, Ala. (45). **C**
Ross, Denman Waldo, Ph.D., Cambridge, Mass. (29).
Roth, Filibert, U. S. Dep't of Agric., Washington, D. C. (39). **F**
Rothe, Wm. G., 226 Stuyvesant Ave., Brooklyn, N. Y. (43).
Rotzell, W. E., M.D., Narberth, Montgomery Co., Pa. (45). **F H**
Ruland, M. A., 292 Green Ave., Brooklyn, N. Y. (43).
Rupp, August, A.B., College of City of New York, New York, N. Y. (35).
Rupp, Philip, M.D., 334 E. 17 St., New York, N. Y. (35).
Russell, A. H., Captain of Ordnance, U. S. A., Rock Island Arsenal, Rock Island, Ill. (38). **D**
Russell, Frank, Assistant in Anthropology, Harv. Univ., Peabody Museum, Cambridge, Mass. (45). **H**
Rust, Horatio N., Colton, San Bernardino Co., Cal. (26). **H**
Ryker, J. N., U. S. Weather Bureau, Lynchburg, Va. (41).

Sackett, Miss Eliza D., Cranford, N. J. (35). **F H**
Sage, John H., Portland, Conn. (23). **F**
Sander, Dr. Enno, St. Louis, Mo. (27). **C**
Saunders, Walter M., Olneyville, R. I. (43).
Sayre, Robert H., South Bethlehem, Pa. (28). **D**

SCHAFFER, CHAS., M.D., 1309 Arch St., Philadelphia, Pa. (29). **F E**
SCHAFFER, MRS. MARY TOWNSEND SHARPLESS, 1309 Arch St., Philadelphia, Pa. (38). **F E**
Scharar, Christian H., 2073 N. Main Ave., Scranton, Pa. (33). **A D E H**
SCHERMERHORN, F. AUG., 61 University Place, New York, N. Y. (36).
SCHERMERHORN, WM. C., 49 W. 23d St., New York, N. Y. (36).
Schieren, Hon. Charles A., Brooklyn, N. Y. (43). **I C**
Schimpf, Prof. Henry W., 365 Franklin Ave., Brooklyn, N. Y. (43).
Schmid, Dr. H. Ernest, White Plains, N. Y. (25).
Schneck, Jacob, M.D., Mount Carmel, Ill. (41). **E F H**
Schobinger, John J., 2101 Indiana Ave., Chicago, Ill. (34). **B**
Schöney, Dr. L., 68 East 104th St., New York, N. Y. (29). **F**
Schryver, Miss Annie A., Teachers College, New York, N. Y. (41).
Schuette, J. H., Green Bay, Wis. (34). **F E B**
Schultz, Carl H., 430–440 First Ave., New York, N. Y. (29).
Scott, Martin P., M.D., Maryland Agric., Coll., College Park, Md. (31).
Scoville, S. S., M.D., Lebanon, Ohio (30). **E F**
Searing, Anna H., M.D., Escondido, San Diego Co., Cal. (41). **G**
Sebert, William F., 353 Clinton St., Brooklyn, N. Y. (41). **A E**
Selby, Augustine Dawson, Ohio Agric. Exper. Station, Wooster, Ohio (44). **G**
Serrell, Lemuel W., 140 Nassau St., New York, N. Y. (36). **D**
Sharp, Dr. Clayton H., Ithaca, N. Y. (45).
Shaw, Cyrus W., Mountainville, Orange Co., N. Y. (43). **I**
SHEAFER, A. W., Pottsville, Pa. (28).
Shepardson, Prof. Geo. D., 1107 S. E. 7th St., Minneapolis, Minn. (45). **B D**
Shepherd, Elizabeth, 253 W. 128th St., New York, N. Y. (39).
Sherman, Orray Taft, 379 Harvard St., Cambridge, Mass. (39).
Shultz, Charles S., Hoboken, N. J. (31). **F**
Siebel, John E., Director Zymotechnic Inst., 1424 Montana St., Chicago, Ill. (39). **C B F E**
Siemon, Rudolph, 191 Calhoun St., Fort Wayne, Ind. (40). **A F**
SILVER, L. B., 172 Summit St., Cleveland, Ohio (37).
Simonds, Hon. Wm. E., Hartford, Conn. (44).
Sirrine, F. Atwood, Jamaica, Long Island, N. Y. (44).
Skiff, F. J. V., Director Field Columbian Museum, Chicago, Ill. (43).
Skilton, George S., 372 Decatur St., Brooklyn, N. Y. (43).
Slade, Elisha, Somerset, Bristol Co., Mass. (29). **F**
Slocum, Chas. E., M.D., Defiance, Ohio (34). **F**
Small, John Kunkel, Columbia College, New York, N. Y. (44).
Smillie, Thomas W., U. S. National Museum, Washington, D. C. (40). **F**
Smith, Arma A., West Camden, N. Y. (45).
Smith, Arthur Whitmore, Middletown, Conn. (44). **B**
Smith, Benj. G., 45 Fayerweather St., Cambridge, Mass. (29). **I**
Smith, Miss Cora A., Lansingburg, N. Y. (44). **F G**
Smith, De Cost, Skaneateles, N. Y. (38). **H**

Smith, Ernest Ellsworth, 262 Fifth Ave., New York, N. Y. (43).
Smith, E. Reuel, Skaneateles, N. Y. (38).
Smith, Prof. Harold B., Worcester Polytechnic Inst., Worcester, Mass. (43). **B**
Smith, Henry L., 149 Broadway, New York, N. Y. (26).
Smith, Prof. Herbert S. S., Princeton Univ., Princeton, N. J. (29). **D**
Smith, Herbert W., 2 Wabash Ave., Chicago, Ill. (45). **E**
Smith, Miss J. Angelina, State Normal School, Framingham, Mass. (45). **E**
Smith, James Hervey, Baldwin Univ., Berea, Ohio (40).
Smith, Miss Jane, Peabody Museum, Cambridge, Mass. (29). **H**
Smith, Jos. R., Col. U. S. A., 2300 De Laney Place, Philadelphia, Pa. (43).
Smith, Lee Herbert, M.D., 224 Elmwood Ave., Buffalo, N. Y. (45). **H**
Smith, Mrs. Marshall E., 4608 Wayne St., Germantown, Philadelphia, Pa. (40). **H I**
Smith, Prof. Thomas A., Beloit, Wis. (33). **B A**
Smith, Uselma C., 1515 Green St., Philadelphia, Pa. (33). **F**
Smyth, Prof. Jas. D., Burlington, Iowa (28). **I**
Snyder, Prof. Harry, St. Anthony Park, Minn. (44). **C**
Snyder, John F., M.D., Virginia, Cass Co., Ill. (42).
Soule, Wm., Ph.D., Alliance, Ohio (33). **B C E**
Southwick, E. B., Arsenal Building, Central Park, New York, N. Y. (36).
Souvielle, Mathieu, M.D., Box 355, Jacksonville, Fla. (36). **B E F**
Souvielle, Mrs. M., Box 355, Jacksonville, Fla. (24). **A B F**
Spencer, Arthur Coe, B.S., Sub station No. 2, Cleveland, Ohio (41). **E**
Speyers, Clarence L., Rutgers College, New Brunswick, N. J. (36). **C**
Spilsbury, E. Gybbon, 13 Burling Slip, New York, N. Y. (33). **E D**
Spinney, L. B., (42). **B**
Spofford, Paul N., P. O. Box 1667, New York, N. Y. (36).
Sprague, C. H., Malden, Mass. (29).
Sprague, Frank J., 182 West End Ave., New York, N. Y. (29).
Spurr, Josiah E., A.B., 8 Gerring St., Gloucester, Mass. (43). **E**
Squibb, Charles F., A.B., 150 Columbia Heights, Brooklyn, N. Y. (43).
Squibb, Edward Hamilton, M.D., 148 Columbia Heights, Brooklyn, N. Y. (41). **F**
Stam, Colin F., Chestertown, Md. (33). **C F**
Stearns, John Brainerd, B.S., 44 So. Willard St., Burlington, Vt. (44). **C**
Stebbins, Miss Fannie A., 480 Union St., Springfield, Mass. (44). **G F**
Stebbins, George S., M.D., Springfield, Mass. (44). **H**
Steiger, George, Chem. Laboratory, U. S. Geol. Survey, Washington, D. C. (40). **C E B**
Stein, Dr. S. G., Muscatine, Iowa (43).
Stevens, Frank Lincoln, North High School, Columbus, Ohio (44). **G**
Stevens, Geo. T., M.D., 33 West 33d St., New York, N. Y. (28). **B F**
Stewart, Fred. Carlton, Jamaica, N. Y. (44). **G**
Stickney, Gardner P., 427 Bradford St., Milwaukee, Wis. (44). **H**
Stillman, Prof. John M., Stanford University, Cal. (41).

Stine, Prof. W. M., Director Elect. Dept., Armour Institute, Chicago, Ill. (37). **A C**
Stockwell, Chester Twitchell, 381 Main St., Springfield, Mass. (44). **H I**
Stoller, Prof. James H., Union College, Schenectady, N. Y. (36). **E F**
Stone, D. D., Lansing, N. Y. (39). **F**
Stone, Miss Ellen Appleton, 280 Waterman St., Providence, R. I. (42). **E F**
Stone, Lincoln R., M.D., Newton, Mass. (31).
Stoneman, Miss Bertha, Cornell Univ., Ithaca, N. Y. (45).
Stowell, John, 48 Main St., Charlestown, Mass. (21).
Stradling, Prof. George F., Hatboro, Montgomery Co., Pa. (41).
Streeruwitz, W. H. von, Austin, Texas (40).
Strong, Wendell M., 307 Welch Hall, New Haven, Conn. (44). **A B**
Stubbs, W. C., Audubon Park, New Orleans, La. (40).
Sullivan, J. A., 308 Main St., Malden, Mass. (27). **A**
Sullivan, J. C., M.D., Cairo, Ill. (40). **A**
Summers, Henry E., Champaign, Ill. (42). **F**
Sweet, Henry N., 89 State St., Boston, Mass. (40). **H D**
Sweetnam, Geo. Booker, 39 St. Vincent St., Toronto, Ontario, Can. (38).
Sylvester, Isaiah W., Passaic, N. J. (44). **C**

Taft, Elihu B., Burlington, Vt. (36). **H**
Talbott, Mrs. Laura Osborne, 927 P St., Washington, D. C. (36).
Talmage, Prof. James E., D.S.D., Ph.D., Curator Deseret Museum, Salt Lake City, Utah (41). **C F**
Taylor, C. F., M.D., 1520 Chestnut St., Philadelphia, Pa. (45).
Taylor, Edward Randolph, Cleveland, Ohio (39). **C**
Taylor, F. B., Box 2019, Fort Wayne, Ind. (39).
Taylor, Hudson K., 61 Fowler St., Cleveland, Ohio (42). **C**
Taylor, Prof. Jas. M., Hamilton, Madison Co., N. Y, (33). **A D**
Taylor, Robert S., Box 2019, Fort Wayne, Ind. (39).
Taylor, William Alton, 1516 Caroline St., N. W., Washington, D. C. (40).
Ternan, James C., P. O. Drawer 1033, Rochester, N. Y. (43).
Thaw, Mrs. Mary Copley, Pittsburgh, Pa. (41). **H**
Theilmann, Emil, 1020 E. 10th St., Kansas City, Mo. (41).
Thompson, Alton Howard, 721 Kansas Ave., Topeka, Kan. (33). **H**
Thompson, Daniel G., 111 Broadway, New York, N. Y. (29).
Thompson, Mrs. Frank, 233 South 4th St., Philadelphia, Pa. (33).
Thompson, Fred'k F., 283 Madison Ave., New York, N. Y. (36).
Thompson, J. L., M.D., Indianapolis, Ind. (39). **F**
Thornburg, Charles L., Prof. Math. and Astron., Lehigh Univ., South Bethlehem, Pa. (44). **A**
Tiffany, Asa S., 1221 Rock Island St., Davenport, Iowa (27). **E H**
Tight, Prof. William George, Granville, Ohio (39). **F**
Tilden, Dr. J. N., Peekskill, N. Y. (43).
Tindall, Willoughby C., Associate Prof. of Math., Univ. of Missouri, Columbia, Mo. (40).
Todd, Albert M., Kalamazoo, Mich. (37). **C**

Towle, Wm. Mason, State College, Center Co., Pa. (44). **D**
Townsend, Prof. Charles O., Macon, Ga. (41). **F**
Townsend, Clinton P., Donaldsonville, La. (40). **C**
Townsend, Franklin, 4 Elk St., Albany, N. Y. (4).
Treat, Erastus B., Publisher and Bookseller, 5 Cooper Union, cor. 4th Ave. and 8th St., New York, N. Y. (29). **F I**
Trowbridge, Luther H., East Grand Circus Park, Detroit, Mich. (29).
Trowbridge, Mrs. M. E. D., East Grand Circus Park, Detroit, Mich. (21). **I G**
Tudor, Joseph H., State College, Pa. (39). **A**
Turner, J. Spencer, 109 Duane St., New York, N. Y. (43). **B**

Vail, Prof. Hugh D., Santa Barbara, Cal. (18).
Valentine, Benj. B., Richmond, Va. (33). **H**
Valentine, Edw. P., Richmond, Va. (33). **H**
Van Beuren, Frederick T., 21 W. 14th St., New York, N. Y. (36).
Van Brunt, Cornelius, 319 E. 57th St., New York, N. Y. (28).
Van Slyke, James M., Madison, Wis. (42). **F**
Varney, A. L., Major of Ordnance, U. S. A., Indianapolis Arsenal, Indianapolis, Ind. (44). **H**
Vaux, Geo., jr., 404 Girard Building, Philadelphia, Pa. (33). **E A**
Vermyné, J. J. B., M.D., 2 Orchard St., New Bedford, Mass. (29). **F**
Villard, Fanny G., Dobbs Ferry, N. Y. (36).
Vinal, W. Irving, 1106 East Capitol St., Washington, D. C. (40). **E**
Volk, Ernest, Trenton, N. J. (42). **H**
Voorhees, Chas. H., M.D., P. O. Lock Box 120, New Brunswick, N. J. (29). **F H**
Vredenburgh, Edw. H., 122 So. Fitzhugh St., Rochester, N. Y. (29).

Wagner, Frank C., care Wm. Wagner, Ann Arbor, Mich. (34). **D**
Wales, Salem H., 25 E. 55th St., New York, N. Y. (36).
Walker, Byron Edmund, Toronto, Ontario, Can. (38). **E**
Walker, George C., Room 519, Rookery Building, Chicago, Ill. (17).
Walker, James, Seth Thomas Clock Co., 49 Maiden Lane, New York, N. Y. (43).
Walworth, Rev. Clarence A., 41 Chapel St., Albany, N. Y. (28). **E**
Ward, Frank A., 16-26 College Ave., Rochester, N. Y. (40).
Ward, J. Langdon, 120 Broadway, New York, N. Y. (29). **I**
Ware, Wm. R., Columbia Coll., New York, N. Y. (36).
Waring, John, Ovid, N. Y. (33). **D B**
Warner, Charles F., Manual Training School, Cambridge, Mass. (45). **B**
Warren, Mrs. Susan E., 67 Mt. Vernon St., Boston, Mass. (29).
Warrington, James N., 127 Park Ave., Chicago, Ill. (34). **D A B**
Washburn, Prof. F. L., State Univ., Eugene, Oregon (44). **F**
Washington, Dr. Henry S., Locust, N. J. (44). **E**
Waters, Geo. F., 6 Somerset St., Boston, Mass. (29). **B F H E D**

Watkins, L. D., Manchester, Mich. (34). **F**
Watson, Miss C. A., Salem, Mass. (31). **D**
Watson, Elizabeth S., Weymouth, Mass. (42). **E**
Watson, Thomas A., Weymouth, Mass. (42). **E**
Watson, Thomas L., Agric. Exper. Station, Agric. and Mechan. College, Blacksburgh, Va. (42).
Watters, William, M.D., 26 So. Common St., Lynn, Mass. (40). **E G**
Watts, A. J., M.D., 1123 Bedford Ave., Brooklyn, N. Y. (43).
Waugh, D. W., M.D., 388 Clinton St., Brooklyn, N. Y. (43).
Weaver, Gerrit E. Hambleton, A.M., 203 De Kalb Square, West Philadelphia, Pa. (38). **G I**
Webster, Mrs. N. B., Vineland, N. J. (43).
Weed, H. E., Agricultural College, Miss. (40). **F**
Weed, J. N., 71 Water St., Newburgh, N. Y. (37). **E I**
Weeden, Hon. Joseph E., Randolph, Cattaraugus Co., N. Y. (31).
Weeks, Fred Boughton, U. S. Geol. Survey, Washington, D. C. (44). **E**
Weems, J. B., Ph.D., Iowa Agric. College, Ames, Iowa (44). **C**
Weinzirl, John, Univ. of Wisconsin, Madison, Wis. (45). **G**
Wells, Mrs. C. F., 27 E. 21st St., New York, N. Y. (31). **H F I D B**
Wells, Samuel, 31 Pemberton Square, Boston, Mass. (24). **H**
Wells, William H., jr., 274 Ashland Ave., Chicago, Ill. (39). **E**
Wernicke, Prof. Paul, 107 E. Maxwell St., Lexington, Ky. (44). **A B**
Werum, Jno. H., Toledo, Ohio (40).
Wetzler, Jos., 203 Broadway, New York, N. Y. (36).
Wheeler, Herbert A., 2700 Pine St., St. Louis, Mo. (33). **E I**
Wheeler, T. B., M.D., 123 Metcalfe St., Montreal, P. Q., Can. (11).
Wheeler, William, C.E., Concord, Mass. (41).
Whetstone, John L., Summit Ave., Mt. Auburn, Cincinnati, Ohio (30). **D**
White, Charles G., Lake Linden, Mich. (46). **B C**
White, LeRoy S., Box 924, Waterbury, Conn. (23).
White, Thaddeus R., 257 W. 45th St., New York, N. Y. (42). **A**
Whitehead, John M., Att'y at Law, Janesville, Rock Co., Wis. (41). **I**
Whitfield, Thomas, Ph.D., 240 Wabash Ave., Chicago, Ill. (41). **C**
Whiting, Mrs. Francis, 914 W. Lafayette St., Norristown, Pa. (40).
Whiting, S. B., 11 Ware St., Cambridge, Mass. (33). **D**
Whitman, Prof. Charles O., Chicago Univ., Chicago, Ill. (43). **F**
Whitney, E. R., 20 North St., Binghamton, N. Y. (41).
Wiegand, Karl McKay, Ithaca, N. Y. (45). **G**
Wilbour, Mrs. Charlotte B., Little Compton, R. I. (28).
Wilbur, Miss F. Isabel, 1719 15th St., N. W., Washington, D. C. (42). **E H**
Wilcox, Miss Emily T., Meriden, Conn. (33). **B A**
Wilder, Geo. Walker, Univ. of Wisconsin, Madison, Wis. (45). **B**
Wilkinson, J. Henderson, 320 E. Capitol St., Washington, D. C. (35). **E**
Willard, Prof. Joseph A., State College, Centre Co., Pa. (44). **A**
Willetts, Joseph C., Skaneateles, N. Y. (29). **E F H**
Williams, Henry Smith, M.D., 165 West 82nd St., New York, N. Y. (34). **F**

Willitts, George E., 709 S. Grand St., Lansing, Mich. (39). **F**
Willoughby, Charles C., Peabody Museum, Cambridge, Mass. (45). **H**
WILMARTH, MRS. HENRY D., 51 Eliot St., Jamaica Plain, Mass. (40).
Wilmot, Thos. J., Commercial Cable Co., Waterville, County Kerry, Ireland (27). **B**
Wilson, Prof. Andrew G., Lenox Coll., Hopkinton, Iowa (43). **E**
Wilson, Fred., 337 Fourth Ave., New York, N. Y. (43).
Wilson, G. Reed, Townsend Block, Main cor. Swan St., Buffalo, N. Y. (45). **H**
Wingate, Miss Hannah S., 103 W. 132nd St., New York, N. Y. (31). **E I**
Wolcott, Mrs. Henrietta L. T., Dedham, Mass. (29). **G**
Woll, Fritz Wilhelm, Madison, Wis. (42). **C**
Wood, Mrs. Cynthia A., 171 W. 47th St., New York, N. Y. (43).
Wood, Thomas Bond, LL.D., care U. S. Legation, Lima, Peru (43).
WOOD, WALTER, 400 Chestnut St., Philadelphia, Pa. (33). **F I**
Woodhull, John Francis, Teachers' College, Morningside Heights, New York, N. Y. (43).
Woodrow, Miss Marion W., Winthrop Normal Coll., Rock Hill, S.C. (45). **E C**
Woods, Albert F., U. S. Dept. Agric., Washington, D. C. (43).
Woodworth, William McMichael, Ph.D., 149 Brattle St., Cambridge, Mass. (44). **F**
Worcester, Dean C., Ann Arbor, Mich. (46). **F H**
Wrenshall, John C., Baltimore, Md. (40). **H**
Wright, Jonathan, M.D., 73 Remsen St., Brooklyn, N. Y. (43).
Wright, John S., care Eli Lilly & Co., Indianapolis, Ind. (42). **G**
Wright, Rufus, 333–339 Lake St., Chicago, Ill. (37). **B**
Wright, S. G., La Fayette, Ind. (42). **G**
Wunderlich, Frederick W., M.D., 165 Remsen St., Brooklyn, N. Y. (45).
Würtele, Miss Minnie, Acton Vale, P. Q., Can. (32). **H**

Youmans, Mrs. Celia G., Mount Vernon, N. Y. (36).
Youmans, Vincent J., Mt. Vernon, N. Y. (43).
Yowell, Everett I., Station "C," Cincinnati, Ohio (41). **A**

Zeng, Miss Nellie E. de, Clyde, Wayne Co., N. Y. (41). **B H**
Ziegler, William, 45–49 Cedar St., New York, N. Y. (43).

[979 PATRONS, CORRESPONDING MEMBERS AND MEMBERS.]

NOTE.—The omission of an address in the foregoing list indicates that letters mailed to that last printed were returned as uncalled for. Information of the present address of the members so indicated is requested by the PERMANENT SECRETARY.

SURVIVING FOUNDERS.

[At the Brooklyn Meeting, 1894, a resolution was unanimously adopted by which all surviving founders of the Association who have maintained an interest in science were made Honorary Life Members of the Association in recognition of their pioneer work in American Science.]

BOYÉ, Martin H., Coopersburg, Pa.
DIXWELL, EPES S., Cambridge, Mass.
HALL, JAMES, Albany, N. Y.
HUBBARD, OLIVER PAYSON, New York, N. Y.
WEST, CHARLES E., Brooklyn, N. Y.

(54)

HONORARY FELLOWS.[1]

ROGERS, PROF. WILLIAM B., Boston, Mass. (1). 1881. (Born Dec. 7, 1804. Died May 30, 1882.) **B E**

CHEVREUL, MICHEL EUGÈNE, Paris, France (35). 1886. (Born Aug. 31, 1786. Died April 9, 1889.) **C**

GENTH, DR. F. A., 3937 Locust St., Philadelphia, Pa. (24). 1888. (Born May 17, 1820. Died Feb. 2, 1892.) **C E**

HALL, PROF. JAMES, Albany, N. Y. (1). 1890. **E F**

GOULD, DR. BENJAMIN APTHORP, Cambridge, Mass. (2). 1895. Born Sept. 27, 1824. Died Nov. 26, 1896. **A B**

LEUCKART, PROF. RUDOLF, Leipsic, Saxony, Germany. (44). 1895. **F**

GIBBS, PROF. WOLCOTT, Newport, R. I. (45). 1896. **C B**

FELLOWS.[2]

Abbe, Professor Cleveland, Meteorologist, Weather Bureau, Dept. of Agric., Washington, D. C. (16). 1874. **B A**

Abbe, Dr. Robert, 11 W. 50th St., New York, N. Y. (36). 1892.

Abert, S. Thayer, 1108 G St., N. W., Washington, D. C. (30). 1891. **A B D E I**

Adriance, John S., 231 Broadway, New York, N. Y. (39). 1895. **C**

Alden, Prof. Geo. I., Worcester, Mass. (33). 1885. **D**

Allen, Dr. T. F., 10 E. 36th St., New York, N. Y. (35). 1887. **G**

Alvord, Major Henry E., Lewinsville, Fairfax Co., Va. (29). 1882. **I**

Alwood, Prof Wm. B., Agricultural and Mechanical College and Experiment Station, Blacksburg, Va. (39). 1891. **F**

Andrews, Prof. Launcelot W., Iowa City, Iowa (39). 1891. **C**

Anthony, Prof. Wm. A., 5 Beekman St., Temple Court, New York, N. Y. (28). 1880. **B**

Arthur, J. C., Lafayette, Ind. (21). 1883. **G**

Ashmead, Wm. H., 1833 M St., N. W., Washington, D. C. (40). 1892. **F**

Atkinson, Edward, 31 Milk St., Boston, Mass. (29). 1881. **I D**

Atkinson, George F., Cornell Univ., Ithaca, N. Y. (39). 1892. **G**

Atwater, Prof. W. O., Wesleyan Univ., Middletown, Conn. (29). 1882. **C**

Atwell, Charles B., 1938 Sherman Ave., Evanston, Ill. (36). 1890. **G**

Auchincloss, Wm. S., Bryn Mawr, Pa. (29). 1886. **D A**

Austen, Prof. Peter T., 99 Livingston St., Brooklyn, N. Y. (44). 1896. **C**

Avery, Elroy M., Ph.D., LL.D., 657 Woodland Hills Ave., Cleveland, Ohio (37). 1889. **B**

Ayres, Prof. Brown, Tulane Univ., New Orleans, La. (31). 1885. **B**

[1] See ARTICLE VI of the Constitution. [2] See ARTICLE IV of the Constitution.

*** The number in parenthesis indicates the meeting at which the member joined the Association; the date following is the year when made a Fellow; the black letters at end of line are those of the sections to which the Fellow belongs.

When the name is given in small capitals, it designates that the Fellow is also a Life Member.

Babcock, Prof. S. Moulton, Madison, Wis. (33). 1885. **C**

Bailey, E. H. S., Lawrence, Douglas Co., Kan. (25). 1889. **C E**

Bailey, Prof. Liberty H., Cornell Univ., Ithaca, N. Y. (34). 1887. **G**

Baker, Frank, M.D., 1315 Corcoran St., Washington, D. C. (31). 1886. **F H**

Baker, Marcus, U. S. Geological Survey, Washington, D. C. (30). 1882. **A**

Ballard, Harlan H., 50 South St., Pittsfield, Mass. (31). 1891. **E F**

BARKER, PROF. G. F., 3909 Locust St., Philadelphia, Pa. (13). 1875. **B C**

Barnard, Edward E., care Yerkes Observatory, Lake Geneva, Williams Bay P. O., Wis. (26). 1883. **A**

Barnes, Chas. Reid, Prof. Botany University of Wisconsin, 616 Lake St., Madison, Wis. (33). 1885. **G**

Barnum, Miss Charlotte C., Ph.D., 144 Humphrey St., New Haven, Conn. (36). 1896. **A**

Bartlett, Prof. Edwin J., Dartmouth College, Hanover, N. H. (28). 1883. **C**

Bartlett, John R., Commander U. S. N., Lonsdale, R. I. (30). 1882. **E B**

Bartley, Elias H., M.D., 21 Lafayette Ave., Brooklyn, N. Y. (33). 1894. **C**

Barus, Carl, Ph.D., Wilson Hall, Brown Univ., Providence, R. I. (33). 1887. **B**

Baskerville, Charles, Univ. of North Carolina, Chapel Hill, N. C. (41). 1894. **C**

Bassett, Homer F., Waterbury, Conn. (23). 1874. **F**

Bates, Henry H., Ph.D., U. S. Patent Office, Washington, D. C. (33). 1887. **B A C D**

Battle, Herbert B., Ph.D., Director N. C. Agric. Exper. Station, Raleigh, N. C. (33). 1889. **C**

Bauer, Louis A., Ph.D., University of Cincinnati, Cincinnati, Ohio (40). 1892. **A**

Bausch, Edw., P. O. Drawer 1033, Rochester, N. Y. (26). 1883. **A B C F**

Beal, Prof. Wm. James, Agricultural College, Ingham Co., Mich. (17). 1880. **G**

Beardsley, Prof. Arthur, C.E., Ph.D., Swarthmore College, Swarthmore, Del. Co., Pa. (33). 1885. **D**

Beauchamp, Rev. Wm. M., Baldwinsville, N. Y. (34). 1886. **H**

Becker, Dr. Geo. F., U. S. Geol. Survey, Washington, D. C. (36). 1890. **E**

Bedell, Frederick, Ph.D., Cornell Univ., Ithaca, N. Y. (41). 1894. **B A**

Bell, Alex. Melville, 1525 35th St., Washington, D. C. (31). 1885. **H**

Bell, Robert, M.D., Ass't Director Geological Survey, Ottawa, Ontario, Can. (38). 1889. **E F**

Beman, Wooster W., 19 So. 5th St., Ann Arbor, Mich. (34). 1886. **A**

BENJAMIN, MARCUS, Smithsonian Institution, Washington, D. C. (27). 1887. **C**

Benjamin, Rev. Raphael, M.A., Hotel Premier, 72 St., New York, N. Y. (34). 1887. **E F G H**

Bessey, Prof. Charles E., Univ. of Nebraska, Lincoln, Neb. (21). 1880. **G**

Bethune, Rev. C. J. S., Trinity College School, Pt. Hope, Ont., Can. (18). 1875. **F**

Bickmore, Prof. Albert S., American Museum of Natural History, 8th Ave. and 77th St., Central Park, New York, N. Y. (17). 1880. **H**

Bigelow, Prof. Frank H., U. S. Weather Bureau, Washington, D. C. (36). 1888. **A**

Billings, John S., Surgeon U. S. A., Surg. General's Office, Washington, D. C. (32). 1888. **F H**

BIXBY, W. H., Major, Corps of Engineers, U. S. A., L. H. Eng. Office, Room 20, 4th Floor, P. O. Building, Philadelphia, Pa. (34). 1892. **D**

Blackham, George E., M.D., Dunkirk, N. Y. (25). 1883. **F**

Blair, Andrew A., 406 Locust St., Philadelphia, Pa. (44). 1896. **C**

Blake, Clarence J., M.D., 226 Marlborough St., Boston, Mass. (24). 1877. **B F**

Blake, Francis, Auburndale, Mass. (23). 1874. **B A**

Blue, Archibald, Director of the Bureau of Mines, Toronto, Ontario, Can. (35). 1890. **I**

Boardman, Mrs. William D., care of Baring Brothers & Co., London, England (28). 1885. **E H**

Boas, Dr. Franz, Amer. Museum Natural History, Central Park, New York, N. Y. (36). 1888. **H I**

Boerner, Chas. G., Vevay, Switzerland Co., Ind. (29). 1886. **A B E**

Bolley, Henry L., North Dakota Exper. Station, Fargo, North Dakota (39). 1892. **G**

BOLTON, DR. H. CARRINGTON, Cosmos Club, Washington, D. C. (17). 1875. **C**

Bond, Geo. M., care of The Pratt & Whitney Co., Hartford, Conn. (33). 1885. **D**

Booth, Miss Mary A., 32 Byers St., Springfield, Mass. 1894. **F I G**

Bowditch, Prof. H. P., Jamaica Plain, Mass. (28). 1880. **F B H**

Bowser, Prof. E. A., Rutgers College, New Brunswick, N. J. (28). 1881.

BOYÉ, MARTIN H., M.D., Coopersburg, Lehigh Co., Pa. (1). 1896. **C**

Boynton, Prof. C. Smith, 69 No. Prospect St., Burlington, Vt. (44). 1896. **C**

Brackett, Richard N., Associate Prof. of Chemistry, Clemson College, S. C. (37). **C E**

Bradford, Royal B., Commander U. S. N., care Navy Dept., Washington, D. C. (31). 1891. **B D**

Branner, Prof John C., Stanford University, Cal. (34). 1886. **E F**

Brashear, Jno. A., Allegheny, Pa. (33). 1885. **A B D**

Brewer, Prof. Wm. H., New Haven, Conn. (20). 1875. **E F I**

Brinton, D. G., M.D., Media. Pa. (33). 1885. **H**

Bristol, Wm. H., Stevens Institute, Hoboken, N. J. (36). 1894. **A B D**

Britton, N. L., Ph.D., Director-in-chief N. Y. Botanical Garden, 41 E. 49th St., New York, N. Y. (29). 1882. **G E**

Broadhead, Prof. Garland Carr, University, Columbia, Mo. (27). 1879. **E**

Bromwell, Wm., Pratt Inst , Brooklyn, N. Y. (40). 1896.

Brooks, Wm. R., Box 714, Geneva, N. Y. (35). 1886. **A B D G**
Brown, Robert, care of Yale College Observatory, New Haven, Conn. (11). 1874.
Brown, Mrs. Robert, New Haven, Conn. (17). 1874.
Brühl, Gustav, cor. John and Hopkins Sts., Cincinnati, Ohio (28). 1886. **H**
Brush, Charles F., Brush Electric Light Co., Cleveland, Ohio (35). 1886. **B**
Brush, Prof. George J., Yale College, New Haven, Conn. (4). 1874. **C E**
Buckhout, W. A., State College, Centre Co., Pa. (20). 1881. **F**
Burgess, Dr. Thomas J. W., Med. Sup't, Protestant Hospital for the Insane, Montreal, P. Q., Can. (38). 1889. **G**
Burr, Prof. William H., School of Mines, 41 East 49th St., New York, N. Y. (31). 1883.
Butler, A. W., Brookville, Franklin Co., Ind. (30). 1885. **F H**

Caldwell, Prof. Geo. C., Cornell University, Ithaca, N. Y. (23). 1875. **C**
Calvin, Prof. Samuel, State Univ. of Iowa, Iowa City, Iowa (37). 1889. **E F**
Campbell, Prof. Douglas H., Menlo Park, Cal. (34). 1888. **G**
Campbell, Prof. Edw. D., Ann Arbor, Mich. (44) 1896. **C**
Canby, William M., 1101 Delaware Avenue, Wilmington, Del. (17). 1878. **G**
Carhart, Prof. Henry S., University of Michigan, Ann Arbor, Mich. (29). 1881. **B**
Carleton, M. A., Dep't Agric., Div. of Vegetable Pathology, Washington, D. C. (42) 1894. **G**
Carpenter, Louis G., Agric. Coll., Fort Collins, Col. (32). 1889. **A B**
Carpenter, Capt. W. L., U. S. A., care Adjutant General, Washington, D. C. (24). 1877. **F E**
Carter, James Madison G., M.D., Waukegan, Ill. (39). 1895. **F**
Carus, Paul, Ph.D., La Salle, Ill. (40). 1895. **H**
Casey, Thomas L., 1419 K St., N. W., Washington, D. C. (38). 1892. **F**
Catlin, Charles A., 133 Hope St., Providence, R. I. (33). 1895. **C**
Cattell, Prof. James McKeen, Columbia Univ., New York, N. Y. (44). 1896. **B F H I**
Chalmot, G. de, Spray, N. C. (44). 1896. **C**
Chamberlain, Alexander F., Clark Univ., Worcester, Mass. (38). 1890. **H**
Chamberlin, T. C., 5041 Madison Ave., Chicago, Ill. (21). 1877. **E B F H**
Chandler, Prof. C. F., School of Mines, Columbia Coll., East 49th St., cor. 4th Ave., New York, N. Y. (19). 1875. **C**
Chandler, Prof. Charles Henry, Ripon, Wis. (28). 1883. **A**
Chandler, Seth C., 16 Craigie St., Cambridge, Mass. (29). 1882. **A**
Chandler, Prof. W. H., South Bethlehem, Pa. (19). 1894. **C**
Chanute, O., 413 E. Huron St., Chicago, Ill. (17). 1877. **D I**
Charbonnier, Prof. L. H., University of Georgia, Athens, Ga. (26). 1894. **A B D**
Cheney, Lellen Sterling, 1081 W. Johnson St., Madison, Wis. (42). 1894. **G**

Chester, Prof. Albert H., Rutgers College, New Brunswick, N. J. (29). 1882. **C F**

Christie, James, Pencoyd, Pa. (33). 1894. **D**

Christy, Prof. Samuel B., Box 41, Berkeley, Cal. (35). 1894. **D**

Chute, Horatio N., Ann Arbor, Mich. (34). 1889. **B C A**

Clark, Prof. John E., 445 Orange St., New Haven, Conn. (17). 1875. **A**

Clark, Wm. Bullock, Ph.D., Johns Hopkins Univ., Baltimore, Md. (37). 1891. **E**

Clarke, Prof. F. W., U. S. Geological Survey, Washington, D. C. (18). 1874. **C**

Clarke, Robert, Cincinnati, Ohio. (30). 1895. **H**

Claypole, Prof. Edward W., 603 Buchtel Ave., Akron, Ohio (30). 1882. **E F**

Cloud, John W., 974 Rookery, Chicago, Ill. (28). 1886. **A B D**

Cochran, C. B., Food Inspector to State Board of Agric., 514 South High St., West Chester, Chester Co., Pa. (43). 1896. **C**

Coffin, Prof. Selden J., Lafayette College, Easton, Pa. (22). 1874. **A I**

Cogswell, W. B., Syracuse, N. Y. (33). 1891. **D**

COLBURN, RICHARD T., Elizabeth, N. J. (31). 1894. **I F H**

Cole, Prof. Alfred D., Denison Univ., Granville, Ohio (39). 1891. **B C**

Collin, Prof. Alonzo, Cornell College, Mount Vernon, Iowa (21). 1891. **B C**

Collingwood, Francis, Elizabeth, N. J. (36). 1888. **D**

Colvin, Verplanck, Supt. N. Y. State Adirondack Survey, Albany, N. Y. (28). 1880. **E**

Comstock, Prof. Geo. C., Washburn Observ., Univ. of Wisconsin, Madison, Wis. (34). 1887. **A**

Comstock, Milton L., 641 Academy St., Galesburg, Ill. (21). 1874. **A**

Comstock, Prof. Theo. B., President Univ. of Arizona, Tucson, Arizona (24). 1877. **D E B**

Conant, Prof. L. L., Polytechnic Inst., Worcester, Mass. (39). 1892. **A**

Cook, Prof. A. J., Pomona College, Claremont, Cal. (24). 1880. **F**

Cook, Prof. Orator F., Huntington, N. Y. (40). 1892. **G**

Cooley, Prof. Le Roy C., Vassar College, Poughkeepsie, N. Y. (19). 1880. **B C**

Cooley, Prof. Mortimer E., Univ. of Michigan, Ann Arbor, Mich. (33). 1885. **D**

Corthell, Elmer L., 27 Pine St., New York, N. Y. (34). 1886. **D I E**

Coulter, Prof. John M., Univ. of Chicago, Chicago, Ill. (32). 1884. **G**

Coville, Frederick V., Dept. of Agric., Washington, D. C. (35). 1890. **G**

Cragin, Francis W., Colorado College, Colorado Springs, Col. (29). 1890. **F E H**

Crampton, Chas. A., M.D., Office of Internal Revenue, Treasury Department, Washington, D. C. (36). 1887. **C**

Crandall, Prof. Charles S., Fort Collins, Col. (40). 1894.

Crawford, Prof. Morris B., Middletown, Conn. (30). 1889. **B**

Crockett, Charles W., Rensselaer Polytechnic Inst., Troy, N. Y. (39). 1894. **A D**

Cross, Prof. Chas. R., Mass. Institute Technology, Boston, Mass. (29). 1880. **B**

Culin, Stewart, Univ. of Pa., Philadelphia, Pa. (33). 1890. **H**

Cummings, John, Cummingsville, Woburn, Mass. (18). 1890. **F**

Cushing, Frank H., Bureau of Ethnology, Washington, D. C. (40). 1893. **H**

Cushing, Henry Platt, Adelbert College, Cleveland, Ohio (33). 1888. **E**

Dall, William H., Smithsonian Institution, Washington, D. C. (18). 1874. **H F**

Dana, Edward Salisbury, New Haven, Conn. (23). 1875. **B E**

Dana, Gen. James J., U. S. A., 1412 21st St., N. W., Washington, D. C. (40). 1896.

Daniel, John, Vanderbilt Univ., Nashville, Tenn. (38). 1894. **B**

Darton, Nelson H., U. S. Geol. Survey, Washington, D. C. (37). 1893.

Davis, C. H., Commander U. S. N., Navy Dept., Washington, D. C. (40). 1896.

Davis, Prof. Wm. Morris, Cambridge, Mass. (33). 1885. **E B**

Dawson, Geo. M., S.S.C., F.G.S., Geol. Survey, Ottawa, Ontario, Can. (38). 1895. **E**

Dawson, Sir William, Principal McGill College, Montreal, Can. (10). 1875. **E**

Day, David F., Buffalo, N. Y. (35). 1887. **G**

Day, Fisk H., M.D., 309 Sycamore St., Lansing, Mich. (20). 1874. **E H F**

Dean, George W., P. O. Box 92, Fall River, Mass. (15). 1874. **A**

Dennis, Louis Monroe, Cornell Univ., Ithaca, N. Y. (43). 1895. **C**

Denton, Prof. James E., Stevens Institute, Hoboken, N. J. (36). 1888. **D B A**

Derby, Orville A., San Paulo, Brazil, S. A. (39). 1890.

Dexter, Julius, Cincinnati, Ohio (30).

Dimmock, George, 679 State St., Springfield, Mass. (22). 1874. **F**

Dixwell, Epes S., Cambridge, Mass. (1). 1896. **H F**

Dolbear, Prof. A. Emerson, Tufts College, Mass. (20). 1880. **B**

Doolittle, Prof. C. L., Univ. of Penn., Philadelphia, Pa. (25). 1885. **A**

Dorsey, George A., Ph. D., Ass't in Anthropology, Field Columbian Museum, Chicago, Ill. (39). 1892. **H**

Douglass, Andrew E., Amer. Mus. of Nat. Hist., Central Park, New York, N. Y. (31). 1885. **H**

Draper, Dan'l, Ph.D., Director N. Y. Meteorological Observatory, Central Park, 64th St., Fifth Ave., New York, N. Y. (29). 1881. **B D F A**

Drown, Prof. Thos. M., Lehigh Univ., South Bethlehem, Pa. (29). 1881. **C**

Du Bois, Prof. Aug. J., New Haven, Conn. (30). 1882. **A B D**

Du Bois, Patterson, Ass't Editor S.S.T., 1031 Walnut St., Philadelphia, Pa. (33). 1887. **H C I**

Dudley, Charles B., Drawer 334, Altoona, Pa. (23). 1882. **C B D**

Dudley, Wm. L., Prof. of Chemistry, Vanderbilt Univ., Nashville, Tenn. (28). 1881. **C**

Dudley, Prof. Wm. R., Stanford University, Cal. (29). 1883. **G**
Dumble, E. T., Austin, Texas (37). 1891. **E**
Dunham, Edw. K., 338 East 26th St., New York, N. Y. (30). 1890.
Dunnington, Prof. F. P., University Station, Charlottesville, Va. (26). 1880. **C**
Du Pont, Francis G., Wilmington, Del. (33). 1896. **A B D**
Dwight, Prof. William B., Vassar College, Poughkeepsie, N. Y. (30) 1882. **E F**

Earle, F. S., Prof. of Biology, Alabama Polytechnic Inst., Auburn, Ala. (39). 1896. **G**
Eastman, Charles Rochester, Mus. Comp. Zoölogy, Cambridge, Mass. (41). 1896. **E**
Eastman, Prof. J. R., U. S. Naval Observatory, Washington, D. C. (26). 1879. **A**
Eccles, Robert G., M.D., 191 Dean St., Brooklyn, N. Y. (31). 1894. **F C**
Eddy, Prof. H. T., Engineering and Mechanics, The Univ. of Minnesota, Minneapolis, Minnesota (24). 1875. **A B D**
Edison, Thos. A., Orange, N. J. (27). 1878. **B**
Egleston, Prof. Thomas, 35 W. Washington Square, New York, N. Y. (27). 1879. **C D E**
Eichelberger, William Snyder, Ph.D., Nautical Almanac Office, U. S. Naval Observ., Washington, D. C. (41). 1896. **A**
Eimbeck, William, U. S. C. and G. Survey, Washington, D. C. (17). 1874. **A B D**
Elkin, William L., Yale College Observ., New Haven, Conn. (33). 1885. **A**
Ely, Theo. N., Chief of Motive Power, Penn. R. R., Broad St. Station, Philadelphia, Pa. (29). 1886.
Emerson, Prof. Benjamin K., Box 203, Amherst, Mass. (19). 1877. **E F**
Emery, Albert H., Stamford, Conn. (29). 1884. **D B**
Emery, Charles E., Bennett Building, New York, N. Y. (34). 1886. **D B A**
Emmons, S. F., U. S. Geol. Survey, Washington, D. C. (26). 1879. **E**
Engelmann, George J., M.D., 336 Beacon St., Boston, Mass. (25). 1875. **F H**
Ewell, Ervin E., 3644 Thirteenth St., N. W., Washington, D. C. (40). 1896. **C**
Eyerman, John, "Oakhurst," Easton, Pa. (33). 1889. **E C**

Fairbanks, Henry, Ph.D., St. Johnsbury, Vt. (14). 1874. **B D A**
Fairchild, Prof. H. L., University of Rochester, Rochester, N. Y. (28). 1883. **E F**
Fanning, John T., Consulting Eng., Kasota Block, Minneapolis, Minn. (29). 1885. **D**
Fargis, Rev. Geo. A., Georgetown College, Georgetown, D. C. (40). 1892.
Farlow, Dr. W. G., 24 Quincy St., Cambridge, Mass. (20). 1875. **G**
Farquhar, Henry, Dep't of Agric., Washington, D. C. (33). 1886. **A I G B**

Fernow, Bernhard E., Chief of Forestry Division, Dep't of Agriculture, Washington, D. C. (31). 1887. **G I**

Ferry, Ervin S., Univ. of Wisconsin, Madison, Wis. (41). 1896.

Firmstone, F., Easton, Pa. (33). 1887. **D**

Fiske, Thos. S., A.M., Ph.D., Columbia College, New York, N. Y. (38). 1891. **A**

Fitch, Edward H., Jefferson, Ashtabula Co., Ohio (11). 1874. **I E**

Flather, Prof. John J., 160 South St., Lafayette, Ind. (44). 1896. **D**

Fletcher, Miss Alice C., care Peabody Museum, Cambridge, Mass. (29). 1883. **H**

Fletcher, James, Dominion Entomologist, Experimental Farm, Ottawa, Ontario, Can. (31). 1883. **F**

Fletcher, Dr. Robert, Army Medical Museum, Washington, D. C. (29). 1881. **F H**

Flint, Albert S., Washburn Observ., Madison, Wis. (30). 1887. **A**

Flint, James M., Surgeon U. S. N., Smithsonian Institution, Washington, D. C. (28). 1882. **F**

Ford, Prof. D. R., Elmira, N. Y. (41). 1894. **A B**

Fox, Oscar C., U. S. Patent Office, Washington, D. C. (36). 1891. **B D A**

Franklin, William S., Ames, Iowa (36). 1892.

FRAZER, DR. PERSIFOR, Drexel Building, Room 1042, Philadelphia, Pa. (24). 1879. **E C**

Frazier, Prof. B. W., The Lehigh University, So. Bethlehem, Pa. (24). 1882. **E C**

Frear, Wm., State College, Centre Co., Pa. (33). 1886. **C**

Freer, Prof. Paul C., Ann Arbor, Mich. (39). 1891. **C**

French, Prof. Thomas, jr., Ridgeway Ave., Avondale, Cincinnati, Ohio (30). 1883. **B**

Frisby, Prof. Edgar, U. S. N. Observ., Washington, D. C. (28). 1880. **A**

Frost, Edwin Brant, Hanover, N. H. (38). 1890. **A B**

Frost, Howard V., Ph.D., Arlington, Mass. (38). 1895. **C**

Fuller, Andrew S., Ridgewood, Bergen Co., N. J. (24). 1882. **F**

Fuller, Prof. Homer T., Pres. Drury Coll., Springfield, Mo. (35). 1891. **C E**

Fulton, Robert B., Chancellor Univ. of Miss., Prof. of Physics and Astronomy, University, Miss. (21). 1887. **B A**

Gaffield, Thomas, 54 Allen St., Boston, Mass. (29). 1889. **C B**

Gage, Prof. Simon Henry, Ithaca, N. Y. (28). 1881. **F**

Galbraith, Prof. John, Toronto, Ontario, Can. (38). 1889.

Galloway, B. T., Dep't of Agriculture, Washington, D. C. (37). 1890. **G**

Gibbs, Prof. J. Willard, New Haven, Conn. (33). 1885. **B**

Gilbert, G. K., U. S. Geol. Survey, Washington, D. C. (18). 1874. **E**

Gill, Adam Capen, Cornell Univ., Ithaca, N. Y. (38). 1894. **E**

Gill, Augustus Herman, Mass. Inst. Technology, Back Bay, Boston, Mass. (44). 1896. **C**

Gill, Prof. Theo., Columbian Univ., Washington, D. C. (17). 1874. **F**

Gillette, Clarence P., Fort Collins, Col. (37). 1893.
Gillman, Henry, 183 Fort St., West, Detroit, Mich. (24). 1875. **H F**
Gilman, Daniel C., President Johns Hopkins University, Baltimore, Md. (10). 1875. **E H**
Glenn, William, 1348 Block St., Baltimore, Md. (33). 1893. **C**
Goessman, Prof. C. A., Mass. Agricultural College, Amherst, Mass. (18). 1875. **C**
Goff, E. S., 1113 University Ave., Madison, Wis. (35). 1889.
Gold, Theodore S., West Cornwall, Conn. (4). 1887. **B C**
Goldschmidt, S. A., Ph.D., 43 Sedgwick St., Brooklyn, N. Y. (24). 1880. **C E B**
Goldsmith, Edw., 658 No. 10th St., Philadelphia, Pa. (29). 1892. **C B**
Gooch, Frank A., Yale College, New Haven, Conn. (25). 1880. **C**
Goodale, Prof. G. L., Botanic Gardens, Cambridge, Mass. (18). 1875. **G**
Goodfellow, Edward, Ass't U. S. Coast and Geodetic Survey, Washington, D. C. (24). 1879. **A H**
Goss, Prof. Wm. F. M., Lafayette, Ind. (39). 1896.
GRANT, MRS. MARY J., 36 Division St., Danbury, Conn. (23). 1874. **A**
Grant, Ulysses S., Ph.D., Geol. Survey of Minnesota, Minneapolis, Minn. (39). 1893. **E**
Gratacap, L. P., Ph.B., 77th St. and 8th Ave., New York, N. Y. (27). 1884. **C E F**
Gray, Prof. Thomas, Terre Haute, Ind. (38). 1889.
Green, Arthur L., Purdue Univ., Lafayette, Ind. (33). 1888. **C**
Grimes, J. Stanley, Room 18, 115 Monroe St., care Newark Life Ins. Co., Chicago, Ill. (17). 1874. **E H**
Grinnell, George Bird, 346 Broadway, New York, N. Y. (25). 1885. **F E**
Griswold, Leon Stacy, 238 Boston St., Dorchester, Mass. (38). 1893. **E**

Hague, Arnold, U. S. Geol. Survey, Washington, D. C. (26). 1879.
Haines, Reuben, Haines and Chew St., Germantown, Philadelphia, Pa. (27). 1889. **C B**
Hale, Albert C., Ph.D., No. 551 Putnam Ave., Brooklyn, N. Y. (29). 1886. **C B**
Hale, Geo. E., Yerkes Observatory, Williams Bay, Wis. (37). 1891. **A B C**
Hale, William H., Ph.D., 40 First Place, Brooklyn, N. Y. (19). 1874. **I F H C B E A**
Haliburton, R. G., Q.C., 99 State St., Boston, Mass. (43). 1895. **H**
Hall, Arthur G., 36 Oakland Ave., Ann Arbor, Mich. (41). 1896. **A B**
Hall, Prof. Asaph, 2715 N St., Georgetown, D. C. (25). 1877. **A**
Hall, Asaph, jr., Univ. of Mich., Ann Arbor, Mich. (38). 1890. **A**
Hall, Prof. C. W., Dean Coll. Eng. Met. and Mechan. Arts, University of Minnesota, Minneapolis, Minn. (28). 1883. **D E**
Hall, Prof. Edwin H., 5 Avon St., Cambridge, Mass. (29). 1881. **B**
Hall, Prof. Lyman B., Haverford College, Haverford, Pa. (31). 1884. **C**
Hallock, Albert P., Ph.D., 440 First Ave., New York, N. Y. (31). 1896. **C**
Hallock, Dr. Wm., Columbia Univ., New York, N. Y. (40). 1893. **B E**

Hallowell, Miss Susan M., Wellesley Coll., Wellesley, Mass. (33). 1890. **G**
Halsted, Byron D., New Jersey Agricultural Experiment Station, New Brunswick, N. J. (29). 1883. **G**
Halsted, Prof. George Bruce, Austin, Texas (43). 1896.
Hambach, Dr. G., 1319 Lami St., St. Louis, Mo. (26). 1891. **F E**
HANAMAN, C. E., Troy, N. Y. (19). 1883. **F**
Hardy, Prof. A. S., Dartmouth College, Hanover, N. H. (28). 1883. **A**
Hargitt, Prof. Charles W., Syracuse Univ., Syracuse, N. Y. (38). 1891. **F**
HARKNESS, PROF. WILLIAM, U. S. N. Observatory, Washington, D. C. (26). 1878. **A B C D**
Harris, Abram Winegardner, Sc.D., Pres. Maine State College, Orono, Me. (40). 1895. **C**
Harris, Prof. E. P., Amherst College, Amherst, Mass. (44). 1896.
Harris, Gilbert D., Cornell Univ., Ithaca, N. Y. (37). 1893. **F E**
Harris, Uriah R., Lieutenant U. S. N., U. S. S. Adams, care Navy Pay Office, San Francisco, Cal. (34). 1886. **A**
Harris, W. T., 1303 P St., N. W., Washington, D. C. (27). 1887. **H I**
Hart, Edw., Ph.D., Lafayette Coll., Easton, Pa. (33). 1885. **C**
Hasbrouck, Prof. I. E., 364 Carlton Ave., Brooklyn, N. Y. (23). 1874. **D A I**
Haskell, Eugene E., U. S. Engineer Office, Sault Ste. Marie, Mich. (39). 1896. **A B D**
HASTINGS, C. S., Sheffield Scientific School of Yale College, New Haven, Conn. (25). 1878. **B**
Hathaway, Prof. A. S., Rose Polytechnic Inst., Terre Haute, Ind. (41). 1893. **A**
Haynes, Prof. Henry W., 239 Beacon St., Boston, Mass. (28). 1884. **H**
Heal, Wm. E., Marion, Ind. (39). 1891. **A**
Hedrick, Henry B., A.B., Glencarlyn, Alexandria Co., Va. (40). 1896.
Hering, Rudolph, Civil and Sanitary Engineer, 100 William St., New York, N. Y. (33). 1885. **D E I**
Herty, Chas. Holmes, Ph.D., Univ. of Georgia, Athens, Ga. (42). 1895. **C**
Hervey, Rev. A. B., Bath, Me. (22). 1879. **F**
Hilgard, Prof. E. W., University of California, Berkeley, Cal. (11). 1874. **C E B**
Hill, David J., Pres. Univ. of Rochester, Rochester, N. Y. (41). 1895. **H I**
Hill, Robert Thomas, U. S. Geol. Survey, Washington, D. C. (36). 1889. **E**
Hillyer, Homer W., Ph.D., Chem. Laboratory, Univ. of Wisconsin, Madison, Wis. (42). 1896. **C**
Himes, Prof. Charles F., Carlisle, Pa. (29). 1882. **B C**
Hinrichs, Dr. Gustavus, 3132 Lafayette Ave., St. Louis, Mo. (17). 1874. **C B**
Hitchcock, Albert Spear, Manhattan, Kan. (39). 1892. **G**
HITCHCOCK, PROF. CHARLES H., Hanover, N. H. (11). 1874. **E**
Hobbs, William Herbert, Ph.D., Madison, Wis. (41). 1893. **E**
Hodges, N. D. C., Cambridge, Mass. (29). 1882. **B**

Hodgkins, Prof. H. L., Columbian Univ., Washington, D. C. (40). 1896. **A B**

Hoffmann, Dr. Fred., "Rundschau," P. O. Box 1680, New York, N. Y. (28). 1881. **C F**

Holland, W. J., D.D., LL.D., Chancellor of the Western Univ. of Pa., Pittsburgh, Pa. (37). 1896. **F**

Hollick, Arthur, Columbia Univ., New York, N. Y. (31). 1892. **G E**

Holmes, Prof. Jos. A., Chapel Hill, N. C. (33). 1887. **E F**

Holmes, Wm. H., Field Columbian Mus., Chicago, Ill. (30). 1883. **H**

Holway, E. W. D., Decorah, Iowa (33). 1890. **G**

Hosea, Lewis M., Johnston Building, Cincinnati, Ohio (30). 1883. **B H**

Hotchkiss, Major Jed., Staunton, Va. (31). 1883. **E H I**

Hough, Prof. G. W., Northwestern Univ., Evanston, Ill. (15). 1874. **A**

Hough, Walter, U. S. National Museum, Washington, D. C. (38). 1890.

Hovey, Edmund O., Amer. Mus. Nat. History, New York, N. Y. (36). 1895. **C E**

Hovey, Rev. Horace C., 60 High St., Newburyport, Mass. (29). 1883. **E H**

Howard, Prof. Curtis C., 97 Jefferson Ave., Columbus, Ohio (38). 1892. **C**

Howard, Leland O., Dep't of Agric., Washington, D. C. (37). 1889. **F**

Howe, Charles S., Prof. of Mathematics, Case School of Applied Science, Cleveland, Ohio (34). 1891. **A**

Howe, Prof. Jas. Lewis, Washington and Lee Univ., Lexington, Va. (36). 1888. **C**

Howell, Edwin E., 612 17th St., N. W., Washington, D. C. (25). 1891 **E**

Hubbard, Gardiner Greene, 1328 Conn. Ave., Washington, D. C. (40). 1893. **E**

Hubbard, Henry Guernsey, 230 New Jersey Ave., Washington, D. C. (41). 1895. **F**

HUBBARD, PROF. OLIVER PAYSON, 123 W. 55th St., New York, N. Y. (1). 1896,

Hulst, Rev. Geo. D., 15 Himrod St., Brooklyn, N. Y. (29). 1887. **F**

Humphreys, Dr. W. J. 1, Johns Hopkins Univ., Baltimore, Md. (42). 1894. **B**

Hunt, Alfred E., 116 Water St., Pittsburgh, Pa. (35). 1891. **C D**

Hunter, Andrew Frederick, Barrie, Ontario, Can. (38). **B H I**

Hyatt, Prof. Alpheus, Natural History Society, Boston, Mass. (18). 1875. **E**

Hyde, Prof. E. W., Station D, Cincinnati, Ohio (25). 1881. **A**

Iddings, Joseph P., The Univ. of Chicago, Chicago, Ill. (31). 1884. **E**

Jack, John G., Jamaica Plain, Mass. (31). 1890. **G**

Jackson, Prof. Charles L , Harvard Univ., Cambridge, Mass. (44). 1895. **C**

Jackson, Robert T., 33 Gloucester St., Boston, Mass. (37). 1890. **F**

Jacobus, David S., Stevens Institute, Hoboken, N. J. (36). 1889. **D B A**

Jacoby, Harold, Columbia Univ., New York, N. Y. (38). 1891. **A**

Jacoby, Henry S., Associate Prof. of Bridge Engineering and Graphics, Cornell Univ., Ithaca, N. Y. (36). 1892. **D**
Jastrow, Dr. Jos., Univ. of Wisconsin, Madison, Wis. (35). 1887. **H F**
Jayne, Horace F., 1826 Chestnut St., Philadelphia, Pa. (29). 1884. **F H**
Jeffries, B. Joy, M.D., 15 Chestnut St., Boston, Mass. (29). 1881. **F H**
Jenkins, Edw. H., Drawer 101, New Haven, Conn. (33). 1885. **C**
Jenks, Elisha T., Middleborough, Mass. (22). 1874. **D**
Jesup, Prof. Henry G., Dartmouth College, Hanover, N. H. (36). 1891. **F**
Jesup, Morris K., 44 Pine St., New York, N. Y. (29). 1891. **I**
Jewell, Theo. F., Commander U. S. Navy, Room No. 22, P. O. Building, Buffalo, N. Y. (25). 1882. **B**
Jillson, Dr. B. C., 6045 Bond St., Pittsburgh, Pa. (14). 1881. **E H F**
Johnson, John B., Washington Univ., St. Louis, Mo. (33). 1886. **D**
Johnson, Otis C., 52 Thayer St., Ann Arbor, Mich. (34). 1886. **C**
Jones, Lewis R., Burlington, Vt. (41). 1894. **G**
Jones, Prof. Marcus E., Salt Lake City, Utah (40). 1893.
Jordan, Prof. David S., Palo Alto, Menlo Park P. O., Cal. (31). 1883. **F**
Julien, A. A., New York Acad. of Sciences, New York, N. Y. (24). 1875. **E C**

Kedzie, Mrs. Nellie S., Manhattan, Kan. (34). 1890. **I F**
Kedzie, Prof. Robert C., Agricultural College, Mich. (29). 1881. **C**
Kellerman, Prof. William A., Ohio Univ., Columbus, Ohio (41). 1893. **G**
Kellicott, David S., Columbus, Ohio (31). 1883. **F**
Kemp, James F., School of Mines, Columbia Univ., New York, N. Y. (36). 1888. **E**
Kendall, Prof. E. Otis, 3826 Locust St., Philadelphia, Pa. (29). 1882. **A**
Kent, William, Passaic, N. J. (26). 1881. **D I**
Kershner, Prof. Jefferson E., Lancaster City, Pa. (29). 1883. **A B**
Kinealy, John H., Washington Univ., St. Louis, Mo. (36). 1891. **D**
King, F. H., Experiment Station, Madison, Wis. (32). 1892. **E F**
Kinnicutt, Dr. Leonard P., Polytechnic Inst., Worcester, Mass. (28). 1883. **C**
Klotz, Otto Julius, 437 Albert St., Ottawa, Ontario, Can. (38). 1889.
Knowlton, Frank H., U. S. National Museum, Washington, D. C. (33). 1893. **G E**
Kober, Geo. Martin, M.D., 1819 Q St. N. W., Washington, D. C. (40). 1896. **H**
Kunz, G. F., care Messrs. Tiffany & Co., Union Square, New York, N. Y. (29). 1883. **E H C**

Lacoe, Ralph D., Pittston, Pa. (31). 1893. **E F**
Ladd, Prof. E. F., Agricultural Coll., Fargo, No. Dakota (36). 1889. **C**
Laflamme, Prof. J. C. K., Laval Univ., Quebec, Can. (29). 1887. **E B**
LaFlesche, Francis, Indian Bureau, Interior Dep't, Washington, D. C. (33). 1885. **H**
Lamb, Daniel S., M.D., 800 10th St., N. W., Washington, D. C. (40). 1894. **H**

Landreth, Olin H., Prof. of Civil Engineering, Union College, Schenectady, N. Y. (28). 1883. **D**

Langenbeck, Karl, 27 Orchard St., Zanesville, Ohio (39). 1896. **C**

Langley, Prof. J. W., Case School of Applied Science, Cleveland, Ohio (23). 1875. **C B**

Langley, Prof. S. P., Secretary Smithsonian Institution, Washington, D. C. (18). 1874. **A B**

Lanza, Prof. Gaetano, Mass. Institute of Technology, Boston, Mass. (29). 1882. **D A B**

Larkin, Edgar L., Director Knox College Observatory, Galesburg, Ill. (28). 1883. **A**

Lattimore, Prof. S. A., University of Rochester, Rochester, N. Y. (15). 1874. **C**

Laudy, Louis H., Ph.D., School of Mines, Columbia Univ., New York, N. Y. (28). 1890. **C**

Lawrence, George N., 45 E. 21st St., New York, N. Y. (7). 1877. **F**

Lazenby, Prof. Wm. R., Columbus, Ohio (30). 1882. **B I**

Leach, Miss Mary F., Mt. Holyoke Coll., South Hadley, Mass. (44). 1896. **C**

LeBrun, Mrs. Michel, 8 Mountain Ave., Montclair, New Jersey. (35). 1892. **F**

LeConte, Prof. Joseph, Univ. of Cal., Berkeley, Cal. (29). 1881. **E F**

Ledoux, Albert R., Ph.D., 9 Cliff St., New York, N. Y. (26). 1881. **C**

Leeds, Prof. Albert R., Stevens Institute, Hoboken, N. J. (23). 1874. **C F**

Lefavour, Prof. Henry, Williams Coll., Williamstown, Mass. (42). 1894.

Lehmann, G. W., Ph.D., 412 East Lombard St., Baltimore, Md. (30). 1885. **C B**

Lennon, William H., Brockport, N. Y. (31). 1894. **G C**

Lesley, Prof. J. Peter, State Geologist of Pennsylvania, 1008 Clinton St., Philadelphia, Pa. (2). 1874. **E**

Leverett, Frank, Denmark, Iowa (37). 1891. **E**

Libbey, Prof. William, jr., Princeton, N. J. (29). 1887. **E F**

Lindahl, Josua, Ph.D., Society of Natural History, Cincinnati, Ohio (40). 1892. **F E**

Lindenthal, Gustav, C.E., 45 Cedar St., New York, N. Y. (37). 1891. **I**

Lintner, J. A., N. Y. State Entomologist, Room 27, Capitol, Albany, N. Y. (22). 1874. **F**

Livermore, Wm. R., Maj. of Eng. U. S. A., P. O. Building, Boston, Mass. (38). 1895. **C**

Lloyd, John Uri, Pharmaceutical Chemist, Court and Plum Sts., Cincinnati, Ohio (38). 1890. **C F**

Lloyd, Mrs. Rachel, Box 675, Lincoln, Neb. (31). 1889. **C**

Locy, Prof. Wm. A., Lake Forest, Ill. (34). 1890. **F**

Loeb, Morris, Ph.D., 37 E. 38th St., New York, N. Y. (36). 1889. **C**

Long, Prof. John H., 40 Dearborn St., Chicago, Ill. (41). 1895. **C**

Lord, Prof. Nat. W., State Univ., Columbus, Ohio (29). 1881. **C**

Loud, Prof. Frank H., 1203 N. Tejon St., Colorado Springs, Col. (29). **A B**

Loughridge, Dr. R. H., Ass't Prof. Agric. Chem. and Agric. Geol., Univ. of California, Berkeley, Cal. (21). 1874. **E C**

Love, Edward G., 80 E. 55th St., New York, N. Y. (24). 1882. **C**

Low, Seth, President Columbia Univ., New York, N. Y. (29). 1890.

Lowell, Percival, 53 State St., Boston, Mass. (36). 1896. **A**

Lyford, Edwin F., Springfield, Mass. (33). 1896. **B C H**

Lyle, David Alexander, Captain Ordnance Dept. U. S. A., Ordnance Office, War Dept., Washington, D. C. (28). 1880. **D**

Lyon, Dr. Henry, 34 Monument Sq., Charlestown, Mass. (18). 1874.

McAdie, Alexander George, U. S. Weather Bureau, Washington, D. C. (40). 1892. **B**

McCauley, Major C. A. H., Q. M., U. S. A., 1428 Arch St., Philadelphia, Pa. (29). 1881.

McClintock, Emory, Morristown, N. J. (43). 1895. **A**

McCreath, Andrew S., 223 Market St., Harrisburg, Pa. (33). 1889. **C E**

McCurdy, Chas. W., Ph.D., Prof. of Chem., Univ. of Idaho, Moscow, Idaho (35). 1895. **F E**

McDonnell, Prof. Henry B., College Park, Md. (40). 1893. **C**

McGee, Dr. Anita Newcomb, Bureau of American Ethnology, Washington, D. C. (37). 1892. **H**

McGee, W J, Bureau of American Ethnology, Washington, D. C. (27). 1882. **H E**

McGill, John T., Ph.D., Vanderbilt Univ., Nashville, Tenn. (36). 1888. **C**

McGregory, Prof. J. F., Colgate Univ., Hamilton, N. Y. (35). 1892. **C**

McMahon, James, Ithaca, N. Y. (36). 1891. **A**

MacMillan, Prof. Conway, Univ. of Minnesota, Minneapolis, Minn. (42). 1894. **G**

McMurtrie, William, 106 Wall St., New York, N. Y. (22). 1874. **C**

McNeill, Malcolm, Lake Forest, Ill. (32). 1885. **A**

McRae, Austin Lee, Consulting Electrical Eng., 306 Oriel Building, St. Louis, Mo. (39). 1891. **B**

Mabery, Prof. C. F., Case School of Applied Science, Cleveland, Ohio (29). 1881. **C**

Macbride, Prof. Thomas H., Iowa City, Iowa (38). 1890. **G**

Macfarlane, Prof. A., Lehigh Univ., So. Bethlehem, Pa. (34). 1886. **B A**

Macloskie, Prof. George, College of New Jersey, Princeton, N. J. (25). 1882. **F**

Magie, Prof. Wm., F., Coll., of New Jersey, Princeton, N. J. (35). 1887.

MANN, B. PICKMAN, 1918 Sunderland Place, Washington, D. C. (22) 1874 **I F**

Marcy, Oliver, LL.D., Evanston, Ill. (10). 1874. **E**

Mark, Prof. E. H., Louisville, Ky. (39). 1893. **B**

Marlatt, Charles L., 1st Ass't Entomologist, Dep't of Agric., Washington, D. C. (40). 1895. **F**

Marsh, Prof. C. Dwight, Ripon, Wis. (34). 1893. **E F**
MARSH, PROF. O. C., Yale College, New Haven, Conn. (15). 1874. **F H**
Martin, Artemas, U. S. Coast Survey, Washington, D. C. (38). 1890. **A**
Martin, Prof. Daniel S., 75 West 55th St., New York, N. Y. (23). 1879. **E F**
Martin, Miss Lillie J. (32). 1886. **F C**
Martin, Prof. Wm. J., Davidson College, N. C. (31). 1884. **C E**
Marvin, C. F., U. S. Weather Bureau, Washington, D. C. (39). 1892. **B**
Marvin, Frank O., Univ. of Kansas, Lawrence, Kan. (35). 1894. **D**
Mason, Prof. Otis T., National Museum, Washington, D. C. (25). 1877. **H**
Mason, Dr. William P., Prof. Rensselaer Polytechnic Inst., Troy, N. Y. (31). 1886. **C**
Matthews, Dr. Washington, 21 South Ingalls St., Ann Arbor, Mich. (37). 1888. **H**
Meehan, Thomas, Germantown, Pa. (17). 1875 **G**
Mees, Prof. Carl Leo, Rose Polytechnic Inst., Terre Haute, Ind. (24). 1876. **B C**
Mell, Prof. P. H., Polytechnic Inst., Auburn, Ala. (39). 1895. **E G**
Mendenhall, Prof. T. C., President Worcester Polytechnic Institute, Worcester, Mass. (20). 1874. **B**
Menocal, Anicito G., C. E., U. S. N., Navy Yard, Brooklyn, N. Y. (36). 1888. **D**
Mercer, H. C., Doylestown, Bucks Co., Pa. (41). 1893. **H**
Merrill, Frederick J. H., Ph.D., Ass't Director New York State Museum, Albany, N. Y. (35). 1887. **E**
Merriman, C. C., 1910 Surf St., Lake View, Chicago, Ill. (29). 1880. **F**
Merriman, Prof. Mansfield, So. Bethlehem, Pa. (32). 1885. **A D**
Merritt, Ernest, Ithaca, N. Y. (33). 1890. **B**
Metcalf, William, Pittsburgh, Pa. (33). 1894. **D**
Michael, Mrs. Helen Abbott, 44 Mount Vernon St., Boston, Mass. (33). 1885. **C F**
Michelson, Prof. A. A., Chicago Univ., Chicago, Ill. (26). 1879. **B**
Miles, Prof. Manly, Lansing, Mich. (29). 1890. **F I**
Miller, Prof. William S., Univ. of Wis., Madison, Wis. (42). 1894. **F**
Mills, James, M.A., Guelph, Ontario, Can. (31). 1895. **I C**
Mills, Prof. Wesley, McGill College, Montreal, P. Q., Can. (31). 1886. **F H**
Minot, Dr. Charles Sedgwick, Harvard Medical School, Back Bay, Boston, Mass. (28). 1880. **F**
Minot, Francis, M.D., Readville, Mass. (29). 1884.
Mixter, Prof. Wm. G., New Haven, Conn. (30). 1882. **C**
Mohr, Dr. Charles, Mobile, Ala. (40). 1895. **G**
Moler, Geo. S., 106 University Ave., Ithaca, N. Y. (38). 1892.
Moody, Robert O., M.D., Fair Haven Heights, New Haven, Conn. (35). 1892. **F**
Mooney, James, Bureau of Ethnology, Washington, D. C. (38). 1890. **H**
Moore, E. Hastings, The Univ. of Chicago, Chicago, Ill. (39). 1891. **A**

Moore, Prof. J. W., M.D., Lafayette College, Easton, Pa. (22). 1874. **B D A**
Moore, Veranus A., M.D., Ithaca, N. Y. (40). 1892. **F**
Moorehead, Warren K., Ohio State Univ., Columbus, Ohio (38). 1890. **H**
Moreland, Prof. S. T., Lexington, Va. (33). 1894. **B D**
Morley, Prof. Edward W., 23 Cutler St., Cleveland, Ohio (18). 1876. **C B E**
Morse, Prof. E. S., Salem, Mass. (18). 1874. **F H**
Morton, H., Stevens Institute Technology, Hoboken, N. J. (18). 1875. **B C**
Moser, Lieut. Comd'r Jeff. F., U. S. N., Com'dg U. S. F. S. Str. Albatross, Navy Pay Office, San Francisco, Cal. (28). 1889. **E**
Moses, Prof. Thomas F., Urbana University, Urbana, Ohio (25). 1883. **H F**
Munroe, Prof. C. E., Columbian Univ., Washington, D. C. (22). 1874. **C**
Murdoch, John, Public Library, Boston, Mass. (29). 1886. **F H**
Murtfeldt, Miss Mary E., Kirkwood, Mo. (27). 1881. **F**
Myers, John A., Agric Exper. Station, Morgantown, W. Va. (30). 1889. **C**

Nagle, Prof. James C., A. and M. Coll., College Station, Texas (40). 1893. **D B**
Nardroff, Ernest R. von, 360a Tompkins Ave., Brooklyn, N. Y. (44). **B**
Nason, Frank L., 5 Union St., New Brunswick, N. J. (36). 1888. **E**
Nef, J. U., Univ. of Chicago, Chicago, Ill. (39). 1891. **C**
Nelson, Prof. A. B., Centre College, Danville, Ky. (30). 1882. **A B D**
Newcomb, Prof. S., Navy Dep't, Washington, D. C. (13). 1874. **A B**
Newcombe, Frederick Chas., 51 E. Liberty St., Ann Arbor, Mich. (43). 1896. **G**
Newell, F. H., U. S. Geol. Survey, Washington, D. C. (40). 1893.
Newell, William Wells, Editor Journal American Folk Lore, Cambridge, Mass. (41). 1893. **H**
Nichols, Ernest Fox, Hamilton, N. Y. (41). 1893. **B**
Nichols, E. L., Ph.D., Cornell Univ., Ithaca, N. Y. (28). 1881. **B C**
Nicholson, Prof. H. H., Box 675, Lincoln, Neb. (36). 1888.
Niles, Prof. W. H., Cambridge, Mass. (16). 1874. **E**
NORTON, PROF. THOMAS H., Univ. of Cincinnati, Cincinnati, Ohio (35). 1887. **C**
Novy, Dr. Frederick G., Univ. of Michigan, Ann Arbor, Mich. (36). 1889. **C**
Noyes, Miss Mary C., Ph.D., Lake Erie Seminary, Painesville, Ohio (43). 1896.
Noyes, Prof. Wm. A., Rose Polytechnic Inst., Terre Haute, Ind. (32). 1885. **C**
Nuttall, Mrs. Zelia, care Peabody Museum, Cambridge, Mass. (35). 1887. **H**
Nutting, Prof. Charles C., State Univ. of Iowa, Iowa City, Iowa (40). 1892. **F**

Ogden, Herbert G., U. S. Coast and G. Survey, Washington, D. C. (38). 1891. **E**
Ordway, Prof. John M., Tulane Univ., New Orleans, La. (9). 1875. **C**
Orndorff, Dr. William Ridgely, Cornell Univ., Ithaca, N. Y. (41). 1893. **C**
Orr, William, jr. 30 Firglade Ave., Springfield, Mass. (39). 1895. **F B**
Orton, Prof. Edward, President Ohio Agricultural and Mechanical College, Columbus, Ohio (19). 1875. **E**
Osborn, Henry F., Columbia Univ., New York, N. Y. (29). 1883. **F**
Osborn, Herbert, Ames, Iowa (32). 1884. **F**
Osmond, Prof. I. Thornton, State College, Centre Co., Pa. (33). 1889. **B A C**

Packard, Dr. A. S., 115 Angell St., Providence, R. I. (16). 1875. **F E**
Paine, Cyrus F., 806 Granite Building, Rochester, N. Y. (12). 1874. **B A**
Palache, Charles, University Museum, Cambridge, Mass. (44). 1896. **E**
Palfray, Hon. Charles W., Salem, Mass. (21). 1874.
Pammel, Prof. L. H., Iowa Agricultural College, Ames, Iowa (39). 1892.
Parke, John G., Gen. U. S. A., 16 Lafayette Square, Washington, D. C. (29). 1881. **D**
PARKHURST, HENRY M., 173 Gates Ave., Brooklyn, N. Y. (23). 1874. **A**
Parsons, Prof. C. Lathrop, Durham, N. H. (41). 1896.
Patrick, Geo. E., Ames, Iowa (36). 1890. **C**
Patterson, Geo. W., jr., Ann Arbor, Mich. (44). 1896.
Patterson, Harry J., College Park, Prince George's Co., Md. (36). 1890. **C**
Paul, Prof. Henry M., U. S. Naval Observatory, Washington, D. C. (33). 1885. **A B**
Peabody, Dr. Selim H., 7424 Wright St., Auburn Park, Chicago, Ill. (17). 1885. **D B F**
Pedrick, Wm. R., Lawrence, Mass. (22). 1875.
Peet, Rev. Stephen D., Good Hope, Ill. (24). 1881. **H**
Penrose, Dr. R. A. F., 1331 Spruce St., Philadelphia, Pa. (38). 1890. **E**
Perkins, Prof. George H., Burlington, Vt. (17). 1882. **H F E**
Perry, Arthur C., 226 Halsey St., Brooklyn, N. Y. (43). 1896. **A B**
Peter, Alfred M., 236 E. Maxwell St., Lexington, Ky. (29). 1890. **C**
Peters, Edw. T., P. O. Box 265, Washington, D. C. (33). 1889. **I**
Pettee, Prof. Wm. H., 52 Thompson St., Ann Arbor, Mich. (24). 1875. **E**
Phillips, Prof. A. W., New Haven, Conn. (24). 1879.
Phillips, Prof. Francis C., Western Univ., Allegheny, Pa. (36). 1889. **C**
Phillips, Dr. Wm. A., Evanston, Ill. (41). 1895. **H**
Pickering, Prof. E. C., Director of Observatory, Cambridge, Mass. (18). 1875. **A B**
Pierce, Perry Benj., U. S. Patent Office, Washington, D. C. (40). 1895. **H**
Pillsbury, Prof. John H., Stoneham, Mass. (23). 1885. **F H**
Platt, Franklin, Ass't Geologist, 2nd Geol. Survey of Pa., 1617 Chestnut St., Philadelphia, Pa. (27). 1882. **E**
Pohlman, Dr. Julius, Buffalo, N. Y. (32). 1884. **E F**
Porter, Thos. C., LL.D., Lafayette College, Easton, Pa. (33). 1887. **G**

Powell, Major J. W., Washington, D. C. (23). 1875. **E H**

Power, Frederick B., Ph.D., care Messrs. Burroughs, Wellcome & Co., 42 Snow Hill, London, E. C., Eng. (31). 1887. **C**

Prentiss, D. Webster, M.D., 1101 14th St., N. W., Washington, D. C. (29). 1882. **F**

Prentiss, Robert W., Prof. of Mathematics and Astronomy, Rutgers College, New Brunswick, N. J. (40). 1891. **A**

Prescott, Prof. Albert B., Ann Arbor, Mich. (23). 1875. **C**

Prosser, Charles S., Prof. of Geology, Union Coll., Schenectady, N. Y. (33). 1891. **E F**

Pulsifer, Wm. H., Newton Centre, Mass. (26). 1879. **A H**

Pupin, Dr. M. I., Columbia Univ., New York, N. Y. (44). 1896. **B**

Putnam, Prof. F. W., Curator Peabody Museum American Archæology and Ethnology, Cambridge, Mass.; Curator Dept. Anthropology, Amer. Museum Nat. History, Central Park, New York, N. Y. (Address as Permanent Secretary A. A. A. S., Salem, Mass.) (10). 1874. **H**

Pynchon, Rev. T. R., Trinity College, Hartford, Conn. (23). 1875.

Rathbun, Richard, care Smithsonian Institution, Washington, D. C. (40). 1892. **F**

Raymond, Rossiter W., 13 Burling Slip, New York, N. Y. (15). 1875. **E I**

Raymond, Prof. Wm. G., Rensselaer Polytechnic Inst., Troy, N. Y. (44). 1896. **D**

Rees, Prof. John K., Columbia Univ., New York, N. Y. (26). 1878. **A E B**

Reese, Charles L., 1801 Linden Ave., Baltimore, Md. (39). 1892. **C**

Reese, Jacob, 400 Chestnut St., Philadelphia, Pa. (33). 1891. **D B**

Reid, Harry Fielding, Johns Hopkins Univ., Baltimore, Md. (36). 1893. **B**

Remsen, Prof. Ira, Johns Hopkins Univ., Baltimore, Md. (22). 1875. **C**

Rice, Prof. Wm. North, Wesleyan University, Middletown, Conn. (18). 1874. **E F**

Richards, Prof. Charles B., 137 Edwards St., New Haven, Conn. (33). 1885. **D**

Richards, Edgar, 341 W. 88 St., New York, N. Y. (31). 1886. **C**

Richards, Prof. Robert H., Mass. Inst. Tech., Back Bay, Boston, Mass. (22). 1875. **D**

Richards, Mrs. Robert H., Prof. Mass. Inst. of Tech., Back Bay, Boston, Mass. (23). 1878. **C**

Richardson, Clifford, Sup't of Tests, Barber Asphalt Paving Co., Long Island City, N. Y. (30). 1884. **C**

Ricketts, Prof. Palmer C., 17 1st St., Troy, N. Y. (33). 1887. **D A**

Ricketts, Prof. Pierre de Peyster, 104 John St., New York, N. Y. (26). 1880. **C D E**

Risteen, Allen D., Hartford, Conn. (38). 1890. **A B D**

Robinson, Benjamin Lincoln, Curator Harvard Herbarium, Cambridge, Mass. (41). 1893. **G**

Robinson, Prof. Franklin C., Bowdoin College, Brunswick, Me. (29). 1889. **C D**

Robinson, Prof. S. W., 1353 Highland St., Columbus, Ohio (30). 1883. **D B A**
Rockwell, Gen. Alfred P., Manchester, Mass. (10). 1882. **E**
Rockwell, Chas. H., Box 293, Tarrytown, N. Y. (28). 1883. **A D**
Rockwood, Prof. Charles G., jr., College of New Jersey, Princeton, N. J. (20). 1874. **A E B D**
Rogers, Prof. W. A., Colby Univ., Waterville, Me. (15). 1875. **A B D**
Rominger, Dr. Carl, Ann Arbor, Mich. (21). 1879. **E**
Rood, Prof. O. N., Columbia Univ., New York, N. Y. (14). 1875. **B**
Rosa, Edward Bennett, Prof. of Physics, Wesleyan Univ., Middletown, Conn. (39). 1892. **A B**
Ross, Prof. Edward A., Stanford, Cal. (41). 1894. **I**
Ross, Waldo O., 1 Chestnut St., Boston, Mass. (29). 1882.
Rotch, A. Lawrence, Readville, Mass. (39). 1896.
Rowland, Prof. Henry A., Baltimore, Md. (29). 1880. **B**
Rowlee, W. W., Cornell Univ., Ithaca, N. Y. (41). 1894. **G**
Runkle, Prof. J. D., Mass. Institute of Technology, Boston, Mass. (2). 1875. **A D**
Rusby, Henry H., M.D., College of Pharmacy, 211 E. 23d St., New York, N. Y. (36). 1890. **G**
Russell, Prof. H. L., University of Wisconsin, Madison, Wis. (41). 1894. **G**
Russell, I. C., Univ. of Mich., Ann Arbor, Mich. (25). 1882. **E**
Ryan, Harris J., Cornell Univ., Ithaca, N. Y. (38). 1890. **B**

Sadtler, Sam'l P., 1042 Drexel Building, Philadelphia, Pa. (22). 1875. **C**
Saegmuller, G. N., 132 Maryland Ave., S. W., Washington, D. C. (38). 1891. **A B**
Safford, Dr. James M., Nashville, Tenn. (6). 1875. **E C F**
Safford, Prof. Truman H., Williamstown, Mass. (41). 1892. **A**
Salisbury, Prof. R. D., Chicago Univ., Chicago, Ill. (37). 1890. **B E**
Salmon, Daniel E., Department of Agriculture, Washington, D. C. (31). 1885. **F**
Sampson, Commander W. T., U. S. N., Navy Dept., Washington, D. C. (25). 1881. **B A**
Saunders, Prof. Charles E., 32 St. Mary St., Toronto, Ontario, Can. (41). 1895. **C**
Saunders, William, LL.D., F.R.S.C., F L.S., Director Canadian Experimental Farms, Ottawa, Can. (17). 1874. **F**
Saville, Marshall H., Amer. Mus. Nat. Hist., Central Park, New York, N. Y. (39). 1892. **H**
SCHAEBERLE, J. M., Astronomer in the Lick Observatory, San José, Cal. (34). 1886. **A**
Schanck, Prof. J. Stillwell, Princeton, New Jersey (4). 1882. **C B H**
Schott, Charles A., U. S. Coast and Geodetic Survey Office, Washington, D. C. (8). 1874. **A**
Schwarz, E. A., 230 New Jersey Ave., Washington, D. C. (29). 1895. **F**

Schweinitz, Dr. E. A. de, Dep't of Agriculture, Washington, D. C. (36). 1889. **C**

Schweitzer, Prof. Paul, State University of Missouri, Columbia, Mo. (24). 1877. **C B**

Scovell, M. A., Director Kentucky Agricultural Experiment Station, Lexington, Ky. (35). 1887.

SCUDDER, SAMUEL H., Cambridge, Mass. (13). 1874. **F**

Scull, Miss S. A., Smethport, McKean Co., Pa. (40). 1895. **H**

Seaman, W. H., Chemist, 1424 11th St. N. W., Washington, D. C. (23). 1874. **C F**

Searle, Prof. Geo. M., Catholic Univ., Washington, D. C. (39). 1891. **A**

See, Horace, 1 Broadway, New York, N. Y. (34). 1886. **D**

Seymour, Arthur Bliss, Cambridge, Mass. (36). 1890. **G**

Seymour, Paul Henry, 479 Second Ave., Detroit, Mich. (44). 1896. **C**

Sharples, Stephen P., 13 Broad St., Boston, Mass. (29). 1884. **C**

Shaw, Prof. James Byrnie, 1030 Grove St., Jacksonville, Ill. (43). 1896. **A**

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Shelton, Prof. Edward M., Dep't of Agric., Brisbane, Queensland, Australia (32). 1892. **F**

Shimer, Porter W., E.M., Easton, Pa. (38). 1889. **C**

Shufeldt, Dr. R. W., Smithsonian Institution, Washington, D. C. (40). 1892. **F**

Sias, Solomon, M.D., Schoharie, Schoharie Co., N. Y. (10). 1874.

Sigsbee, Chas. D., Com'd'r U. S. N., U. S. Hydrographic Office, Washington, D. C. (28). 1882. **D E**

Simon, Dr. Wm., 1348 Block St., Baltimore, Md. (29). 1895. **C**

Skilton, James A., 115 Broadway, New York, N. Y. (43). 1895. **I**

Skinner, Aaron N., U. S. Naval Observ., Washington, D. C. (40). 1893. **A**

Skinner, Joseph J., Massachusetts Inst. Technology, Boston, Mass. (23). 1880. **B**

Smith, Alex., Ph.D., The Univ. of Chicago, Chicago, Ill. (40). 1892. **C**

Smith, Prof. Chas. J., 35 Adelbert St., Cleveland, Ohio (32). 1885. **A B**

Smith, Prof. Edgar F., Univ. of Penn., Philadelphia, Pa. (33). 1891. **C**

Smith, Edwin, Rockville, Montgomery Co., Md. (30). 1882. **A B**

Smith, Prof. Erastus G., Beloit College, Beloit, Wis. (34). 1887. **C**

Smith, Erwin F., Dep't of Agric., Washington, D. C. (34). 1890. **G**

Smith, Prof. Eugene A., University, Ala. (20). 1877. **E C**

Smith, Harlan I., Amer. Mus. Nat. History, Central Park, New York, N. Y. (41). 1896. **H**

Smith, James Perrin, Ph.D., Ass't Prof. of Paleontology, Leland Stanford Junior Univ., Palo Alto, Cal. (37). 1894. **C E**

Smith, John B., Professor of Entomology, Rutgers College, New Brunswick, N. J. (32). 1884. **F**

SMITH, QUINTIUS C., M.D., No. 617 Colo. St., Austin, Texas (26). 1881. **F**

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Spencer, Prof. J. William, 1320 Corcoran St., Washington, D. C. (28). 1882. **E**
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Springer, Dr. Alfred, Box 621, Cincinnati, Ohio (24). 1880. **C**
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Stearns, Robert E. C., Shaffer House, 525 Sand St., Los Angeles, Cal. (18). 1874. **F**
Stedman, John M., Prof. of Entomology, Univ. of the State of Missouri, Columbia, Mo. (40). 1892. **F**
Steinmetz, Chas. Proteus, General Electric Co., Schenectady, N. Y. (40). 1895. **B**
Stejneger, Leonhard, Curator Dept. of Reptiles, National Museum, Washington, D. C. (40). 1892. **F**
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Stevens, Prof. W. LeConte, Rensselaer Polytechnic Inst., Troy, N. Y. (29). 1882. **B**
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Stevenson, Prof. John J., Univ. Heights, New York, N. Y. (36). 1888. **E**
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Stieglitz, Dr. Julius, Univ. of Chicago, Chicago, Ill. (39). 1895. **C**
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Stoddard, Prof. John T., Smith College, Northampton, Mass. (35). 1889. **B C**
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Stone, Ormond, Director Leander McCormick Observatory, University of Virginia, Va. (24). 1876. **A**
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Tracy, Sam'l M., Agricultural College, Miss. (27). 1881. **G**

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Walcott, Charles D., Director U. S. Geological Survey, Washington, D. C. (25). 1882. **E F**
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Weld, Prof. Laenas G., State Univ. of Iowa, Iowa City, Iowa (41). 1895. **A**

WEST, Dr. CHARLES E., Brooklyn, N. Y. (1). 1895.
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White, Prof. C. A., Le Droit Park, Washington, D. C. (17). 1875. **E F**
White, David, U. S. National Museum, Washington, D. C. (40). 1892. **E F**
White, Prof. H. C., Univ. of Georgia, Athens, Ga. (29). 1885. **C**
WHITE, PROF. I. C., Univ. of W. Va., Morgantown, W. Va. (25). 1882. **E**
Whiteaves, J. F., Geol. Survey, Ottawa, Ontario, Can. (31). 1887. **E F**
Whitfield, J. Edward, 406 Locust St., Philadelphia, Pa. (44). 1896. **C**
Whitfield, R. P., American Museum Natural History, 77th St. and 8th Avenue, New York, N. Y. (18). 1874. **E F H**
Whiting, Miss Sarah F., Wellesley College, Wellesley, Mass. (31). 1883. **B A**
Whitman, Prof. Frank P., Adelbert College, Cleveland, Ohio (33). 1885. **A B**
Wilbur, A. B., Middletown, N. Y. (23). 1874. **E**
Wiley, Prof. Harvey W., Dep't of Agric., Washington, D.C. (21). 1874. **C**
Williams, Benezette, 171 La Salle St., Chicago, Ill. (33). 1887. **D**
Williams, Charles H., M.D., 15 Arlington St., Boston, Mass. (22). 1874.
Williams, Prof. Edw. H., jr., 117 Church St., Bethlehem, Pa. (25). 1894. **E D**
Williams, Prof. Henry Shaler, Yale College, New Haven, Conn. (18). 1882. **E F**
Williams, Prof. Thomas A., Division of Agrostology, Dept. of Agric., Washington, D. C. (42). 1894. **G**
Willis, Bailey, U. S. Geol. Survey, Washington, D. C. (36). 1890.
Willson, Prof. Frederick N., Princeton, N. J. (33). 1887. **A D**
Willson, Robert W., Cambridge, Mass. (30). 1890. **B A**
Wilson, Joseph M., Room 1036, Drexel Building, Philadelphia, Pa. (33). 1886. **D**
Wilson, Robert N., Macleod, Alberta, Can. (42). 1895. **H**
Wilson, Thomas, U. S. Nat'l Museum, Washington, D. C. (36). 1888. **H**
Wilson, Prof. William Powell, Dept. of Biology, Univ. of Pa., Philadelphia, Pa. (38). 1889. **G**
Winchell, Horace V., 1306 S. E. 7th St., Minneapolis, Minn. (34). 1890. **E C**
Winchell, Prof. N. H., Univ. of Minnesota, Minneapolis, Minn. (19). 1874. **E H**
Wing, Henry H., 3 Reservoir Ave., Ithaca, N. Y. (38). 1890.
Winterhalter, A. G., Lt. U. S. N., care Navy Dept., Washington, D. C. (37). 1893. **A**
Withers, Prof. W. A., Agric. and Mechanical College, Raleigh, N. C. (38). 1891. **C**
Witthaus, Dr. R. A., 303 W. 77th St., New York, N. Y. (35). 1890.
Wolff, Dr. J. E., 15 Story St., Cambridge, Mass. (36). 1894. **E**

Wood, Prof. De Volson, Hoboken, N. J. (29). 1881.
Woodbury, C. J. H., Amer. Bell Telephone Co., 125 Milk St., Boston, Mass. (29). 1884. **D**
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Wrampelmeier, Theo. J., Room 17, Appraiser's Building, San Francisco, Cal. (34). 1887. **C**
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Wright, Prof. Arthur W., Yale Coll., New Haven, Conn. (14). 1874. **A B**
Wright, Carroll D., LL.D., Dep't of Labor, Washington, D. C. (41). 1894. **I**
Wright, Rev. Geo. F., Oberlin College, Oberlin, Ohio (29). 1882. **E H**
Wright, Prof. Thos. W., Union College, Schenectady, N. Y. (36). 1889.
Würtele, Rev. Louis C., Acton Vale, P. Q., Can. (11). 1875. **E**

Youmans, Wm. Jay, M.D., Popular Science Monthly, 72 Fifth Ave., New York, N. Y. (28). 1889. **F C**
Young, A. V. E., Northwestern Univ., Evanston, Ill. (33). 1886. **C B**
Young, C. A., Prof. of Astronomy, Princeton Univ. Princeton, N. J. (18). 1874. **A B D**

Zalinski, E. L , U. S. A., Century Club, 7 W. 43d St., New York, N. Y. (36). 1891. **D**
Ziwet, Alexander, 44 Madison St., Ann Arbor, Mich. (38). 1890. **A**

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F. C. W. STILES, U. S. Dept. of Agriculture, Washington, D. C.

G. H. VON SCHRENK, Shaw School of Botany, St. Louis, Mo.

H. HARLAN I. SMITH, American Museum of Natural History, New York.

I. F. R. RUTTER, U. S. Dept. of Agriculture, Washington, D. C.

K. F. S. LEE, Columbia University, New York, N. Y.

TREASURER.

R. S. WOODWARD, Columbia University, New York, N. Y.

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From the Association at Large.—To hold over until successors are elected. A fellow from each section: G. B. HALSTED, Austin; E. L. NICHOLS, Ithaca; C. S. PALMER, Boulder; T. C. CHAMBERLIN, Chicago; F. M. WEBSTER, Wooster; L. M. UNDERWOOD, Stanford; W. J. MCGEE, Washington; E. T. PETERS, Washington; J. MCK. CATTELL, New York.

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Local Committees for the Pittsburg Meeting.*

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George Westinghouse, Jr.

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(See Preliminary Announcement.)

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George A. Wardlaw, Secretary.
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Charles F. Scott, Chairman.
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* For full membership of local committee, see the Preliminary Announcement of the Pittsburg meeting.

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COMMITTEE ON PRESS AND PRINTING.

Rev. P. A. MCDERMOTT, Chairman.
GEORGE H. WILSON, Vice-Chairman.
GEORGE A. WARDLAW, Secretary.

Special Committees of the Association.[1]

1. *Auditors.*

EMORY MCCLINTOCK, Morristown, and G. K. GILBERT, Washington.

2. *Committee on Indexing Chemical Literature.*

H. CARRINGTON BOLTON, *Chairman*, F. W. CLARKE, A. R. LEEDS, H. W. WILEY, J. W. LANGLEY, A. B. PRESCOTT, ALFRED TUCKERMAN.

3. *Committee on the Policy of the Association.*

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4. *Committee on Standards of Measurements.*

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5. *Committee on the Association Library.*

F. W. CLARKE, *Chairman*, A. W. BUTLER, W. L. DUDLEY, THOMAS FRENCH, JR.

6. *Committee on Anthropometric Measurements.*

J. MCK. CATTELL, W. W. NEWELL, W J MCGEE, FRANZ BOAS.

7. *Committee to Cooperate with the National Educational Association Regarding the Teaching of Science in the Secondary Schools.*

R. S. TARR, H. S. CARHART, A. S. PACKARD, C. F. MABERY, C. E. BESSEY.

8. *Committee for the Collection of Information Relative to Forestry.*

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9. *Committee on the Quantitative Study of Biological Variation.*

FRANZ BOAS, *Chairman*, J. MCK. CATTELL, C. S. MINOT, C. H. EIGENMANN, C. B. DAVENPORT.

10. *Committee on the Protection and Preservation of Objects of Arch ological Interest.*

————————, *Chairman*, F. W. PUTNAM, N. H. WINCHELL, G. K. GILBERT, A. W. BUTLER, GEORGE A. DORSEY.

[1] All Committees are expected to present their reports to the COUNCIL not later than the third day of the meeting. Committees sending their reports to the Permanent Secretary one month before a meeting can have them printed for use at the meeting.

11. *Committee on the Study of Blind Vertebrates.*

THEODORE GILL, *Chairman*, A. S. PACKARD, C. O. WHITMAN, S. H. GAGE, H. C. BUMPUS, C. H. EIGENMANN.

12. *Committee on the Teaching of Anthropology in America.*

W J MCGEE, *Chairman*, G. G. MACCURDY, FRANK RUSSELL, FRANZ BOAS, W. H. HOLMES.

13. *Committee on the Relations of the Journal Science with the Association.*

SIMON NEWCOMB, *Chairman*, G. K. GILBERT, J. MCK. CATTELL, THE PRESIDENT, THE PERMANENT SECRETARY.

14. *Committee on the Relations of Plants and Climate.*

WILLIAM TRELEASE, *Chairman*, D. T. MACDOUGAL, J. M. COULTER.

15. *Committee on the Atomic Weight of Thorium.*

CHARLES BASKERVILLE, *Chairman*, F. P. VENABLE, JAMES LEWIS HOWE.

MEETINGS AND OFFICERS OF THE ASSOCIATION OF AMERICAN GEOLOGISTS AND NATURALISTS.

Meeting.	Date.	Place.	Chairman.	Secretary.	Assistant Secretary.	Treasurer.
1st	April 2, 1840,	Philadelphia,	Edw. Hitchcock,*	L. C. Beck,*		
2d	April 5, 1841,	Philadelphia,	Benj. Silliman,*	L. C. Beck,*	B. Silliman, Jr.,* C. B. Trego,*	
3d	April 25, 1842,	Boston,	S. G. Morton,*	C. T. Jackson,*	J. D. Whitney,* M. B. Williams,*	
4th	April 26, 1843,	Albany,	Henry D. Rogers,*	B. Silliman, Jr.,*		John Locke.*
5th	May 8, 1844,	Washington,	John Locke,*	B. Silliman, Jr.,* O. P. Hubbard,		Douglas Houghton.*
6th	April 30, 1845,	New Haven,	Wm. B. Rogers,*	B. Silliman, Jr.,* J. Law. Smith,*		Douglas Houghton.*
7th	Sept. 2, 1846,	New York,	C. T. Jackson,*	B. Silliman, Jr.,*		E. C. Herrick.*
8th	Sept. 20, 1847,	Boston,	Wm. B. Rogers,*†	Jeffries Wyman,*		B. Silliman, Jr.*

* Deceased.

† Professor Rogers, as chairman of this last meeting, called the first meeting of the new Association to order and presided until it was fully organized by the adoption of a constitution. As he was thus the first presiding officer of the new Association, it was directed at the Hartford meeting that his name be placed at the head of the Past Presidents of the American Association for the Advancement of Science.

Meetings	Place	Date	Members in attendance	Number of members
1	Philadelphia	Sept. 20, 1848	?	461
2	Cambridge	Aug. 14, 1849	?	540
3	Charleston	Mar. 12, 1850	?	622
4	New Haven	Aug. 19, 1850	?	704
5	Cincinnati	May 5, 1851	87	800
6	Albany	Aug. 19, 1851	194	769
7	Cleveland	July 28, 1853	?	940
8	Washington	April 26, 1854	168	1004
9	Providence	Aug. 15, 1855	166	605
10	2d Albany	Aug. 20, 1856	381	722
11	Montreal	Aug. 12, 1857	351	946
12	Baltimore	April 28, 1858	190	962
13	Springfield	Aug. 3, 1859	190	862
14	Newport	Aug. 1, 1860	135	644
15	Buffalo	Aug. 15, 1866	79	637
16	Burlington	Aug. 21, 1867	73	415
17	Chicago	Aug. 5, 1868	259	686
18	Salem	Aug. 18, 1869	244	511
19	Troy	Aug. 17, 1870	188	536
20	Indianapolis	Aug. 16, 1871	196	668
21	Dubuque	Aug. 15, 1872	164	610
22	Portland	Aug. 20, 1873	195	670
23	Hartford	Aug. 12, 1874	224	722
24	Detroit	Aug. 11, 1875	165	807
25	2d Buffalo	Aug. 23, 1876	215	867
26	Nashville	Aug. 29, 1877	173	953
27	St. Louis	Aug. 21, 1878	134	962
28	Saratoga	Aug. 27, 1879	256	1030
29	Boston	Aug. 25, 1880	997	1555
30	2d Cincinnati	Aug. 17, 1881	500	1699
31	2d Montreal	Aug. 23, 1882	937	1922
32	Minneapolis	Aug. 15, 1883	328	2033
33	2d Philadelphia	Sept. 3, 1884	1261*	1981
34	Ann Arbor	Aug. 26, 1885	364	1956
35	3d Buffalo	Aug. 18, 1886	445	1886
36	New York	Aug. 10, 1887	729	1956
37	2d Cleveland	Aug. 14, 1888	342	1964
38	Toronto	Aug. 26, 1889	424	1952
39	2d Indianapolis	Aug. 19, 1890	364	1944
40	2d Washington	Aug. 19, 1891	653†	2054
41	Rochester	Aug. 17, 1892	456	2037
42	Madison	Aug. 17, 1893	290	1939
43	Brooklyn	Aug. 15, 1894	488	1802
44	2d Springfield	Aug. 28, 1895	368	1913
45	4th Buffalo	Aug. 24, 1896	333	1890
46	2d Detroit	Aug. 9, 1897	283‡	1782
47	2d Boston	Aug. 22, 1898	903	1729
48	Columbus	Aug. 21, 1899	353	1721
49	2d New York	June 25, 1900	434	1925
50	Denver	Aug. 24, 1901	311	2703

* Including 303 members of the British Association and 9 other foreign guests.

† Including 24 Foreign Honorary members for the meeting.

‡ Including 15 Foreign Honorary members and associates for the meeting.

Officers of the Meetings of the Association.

[The number before the name is that of the meeting; the year of the meeting follows the name; the asterisk after a name indicates that the member is deceased.]

PRESIDENTS.

1. WM. B. ROGERS,* 1848.
1. W. C. REDFIELD,* 1848.
2. JOSEPH HENRY,* 1849.
3. A. D. BACHE,* March meeting, 1850, in the absence of JOSEPH HENRY.*
4. August meeting, 1850.
5. May meeting, 1851.
6. LOUIS AGASSIZ,* August meeting, 1851.
(No meeting in 1852.)
7. BENJAMIN PIERCE,* 1853.
8. JAMES D. DANA,* 1854.
9. JOHN TORREY,* 1855.
10. JAMES HALL,* 1856.
11. ALEXIS CASWELL,* 1857, in place of J. W. BAILEY,* deceased. 1858, in the absence of JEFFRIES WYMAN.*
12.
13. STEPHEN ALEXANDER,* 1859.
14. ISAAC LEA,* 1860.
(No meetings for 1861–65.)
15. F. A. P. BARNARD,* 1866.
16. J. S. NEWBERRY,* 1867.
17. B. A. GOULD,* 1868.
18. J. W. FOSTER,* 1869.
19. T. STERRY HUNT,* 1870, in the absence of WM. CHAUVENET.*
20. ASA GRAY,* 1871.
21. J. LAWRENCE SMITH,* 1872.
22. JOSEPH LOVERING,* 1873.
23. J. L. LECONTE,* 1874.
24. J. E. HILGARD,* 1875.
25. WILLIAM B. ROGERS,* 1876.
26. SIMON NEWCOMB, 1877.
27. O. C. MARSH,* 1878.
28. G. F. BARKER, 1879.
29. LEWIS H. MORGAN,* 1880.
30. G. J. BRUSH, 1881.
31. J. W. DAWSON, 1882.
32. C. A. YOUNG, 1883.
33. J. P. LESLEY, 1884.
34. H. A. NEWTON,* 1885.
35. EDWARD S. MORSE, 1886.
36. S. P. LANGLEY, 1887.
37. J. W. POWELL, 1888.
38. T. C. MENDENHALL, 1889.
39. G. LINCOLN GOODALE, 1890.
40. ALBERT B. PRESCOTT, 1891.
41. JOSEPH LECONTE,* 1892.
42. WILLIAM HARKNESS, 1893.
43. DANIEL G. BRINTON,* 1894.
44. E. W. MORLEY, 1895.
45. EDWARD D. COPE,* 1896. THEODORE GILL, as senior vice-president acted after the death of Prof. COPE.
46. WOLCOTT GIBBS, 1897, absent. W J MCGEE, Acting President.
47. F. W. PUTNAM, 1898.
48. EDWARD ORTON,* 1899. GROVE K. GILBERT, elected by the General Committee December, 1899, to fill the vacancy caused by the death of Prof. ORTON.
49. R. S. WOODWARD, 1900.
50. C. S. MINOT, 1901.
51. ASAPH HALL, 1902.

VICE-PRESIDENTS.

There were no Vice-Presidents until the 11th meeting when there was a single Vice-President for each meeting. At the 24th meeting, the Association met in Sections A and B, each presided over by a Vice-President. At the 31st meeting nine sections were organized, each with a Vice-President as its presiding officer. In 1886 Section G (Microscopy) was given up. In 1892, Section F was divided into F, Zoology; G, Botany.

1857–1874.

11. ALEXIS CASWELL,* 1857, acted as President.
12. JOHN E. HOLBROOK,* 1858, not present.
13. EDWARD HITCHCOCK,* 1859.
14. B. A. GOULD,* 1860.
15. B. A. GOULD,* 1866, in the absence of R. W. GIBBES.
16. WOLCOTT GIBBS, 1867.
17. CHAS. WHITTLESEY,* 1868.
18. OGDEN N. ROOD, 1869.
19. T. STERRY HUNT,* 1870, acted as President.
20. G. F. BARKER, 1871.
21. ALEX. WINCHELL,* 1872.
22. A. H. WORTHEN,* 1873, not present.
23. C. S. LYMAN,* 1874.

1875–1881.

Section A.—Mathematics, Physics, and Chemistry.

24. H. A. NEWTON,* 1875.
25. C. A. YOUNG, 1876.
26. R. H. THURSTON, 1877, in the absence of E. C. PICKERING.
27. R. H. THURSTON, 1878.
28. S. P. LANGLEY, 1879.
29. ASAPH HALL, 1880.
30. WM. HARKNESS, 1881, in the absence of A.M.MAYER.*

Section B.—Natural History.

24. J. W. DAWSON, 1875.
25. EDWARD S. MORSE, 1876.
26. O. C. MARSH,* 1877.
27. AUG. R. GROTE, 1878.
28. J. W. POWELL, 1879.
29. ALEX. AGASSIZ, 1880.
30. EDWARD T. COX, 1881, in the absence of GEORGE ENGELMANN.*

CHAIRMEN OF SUBSECTIONS, 1875–1881.

Subsection of Chemistry.

24. S. W. JOHNSON, 1875.
25. G. F. BARKER, 1876.
26. N. T. LUPTON,* 1877.
27. F. W. CLARKE, 1878.
28. F. W. CLARKE, 1879, in the absence of IRA REMSEN.
29. J. M. ORDWAY, 1880.
30. G. C. CALDWELL, 1881, in the absence of W. R. NICHOLS.*

Subsection of Microscopy.

25. R. H. WARD, 1876.
26. R. H. WARD, 1877.
27. R. H. WARD, 1878, in the absence of G. S. BLACKIE.*
28. E. W. MORLEY, 1879.
29. S. A. LATTIMORE, 1880.
30. A. B. HERVEY, 1881.

Subsection of Anthropology.

24. LEWIS H. MORGAN,* 1875.
25. LEWIS H. MORGAN,* 1876.
26. DANIEL WILSON,* 1877, not present.
27. United with Section B.
28. DANIEL WILSON,* 1879.
29. J. W. POWELL, 1880.
30. GARRICK MALLERY,* 1881.

Subsection of Entomology.

30. J. G. MORRIS, *1881.

VICE-PRESIDENTS OF SECTIONS, 1882–

Section A.—Mathematics and Astronomy.

31. W. A. ROGERS,* 1882, in the absence of WM. HARKNESS.
32. W. A. ROGERS,* 1883.
33. H. T. EDDY, 1884.
34. WM. HARKNESS, 1885, in the absence of J. M. VAN VLECK.
35. J. W. GIBBS, 1886.
36. J. R. EASTMAN, 1887, in place of W. FERREL,* res'd.
37. ORMOND STONE, 1888.
38. R. S. WOODWARD, 1889.
39. S. C. CHANDLER, 1890.
40. E. W. HYDE, 1891.
41. J. R. EASTMAN, 1892.
42. C. L. DOOLITTLE, 1893.
43. { G. C. COMSTOCK, 1894. EDGAR FRISBY, 1894.
44. EDGAR FRISBY, 1895, in place of E. H. HOLDEN, resigned.
45. ALEX. MACFARLANE, 1896, in place of WM. E. STORY, resigned.
46. W. W. BEMAN, 1897.
47. E. E. BARNARD, 1898.
48. ALEX. MACFARLANE, 1899.
49. ASAPH HALL, JR., 1900.
50. JAMES MACMAHON, 1901.
51. G. W. HOUGH, 1902.

Section B.—Physics.

31. T. C. MENDENHALL, 1882.
32. H. A. ROWLAND,* 1883.
33. J. TROWBRIDGE, 1884.
34. S. P. LANGLEY, 1885, in place of C. F. BRACKETT, res'd.
35. C. F. BRACKETT, 1886.
36. W. A. ANTHONY, 1887.
37. A. A. MICHELSON, 1888.
38. H. S. CARHART, 1889.
39. CLEVELAND ABBE, 1890.
40. F. E. NIPHER, 1891.
41. B. F. THOMAS, 1892.
42. E. L. NICHOLS, 1893.
43. WM. A. ROGERS, 1894.
44. W. LECONTE STEVENS, 1895.
45. CARL LEO MEES, 1896.
46. CARL BARUS, 1897.
47. F. P. WHITMAN, 1898.
48. ELIHU THOMSON, 1899.
49. ERNEST MERRITT, 1900.
50. D. B. BRACE, 1901.
51. W. S. FRANKLIN, 1902.

Section C.—Chemistry.

31. H. C. BOLTON, 1882.
32. E. W. MORLEY, 1883.
33. J. W. LANGLEY, 1884.
34. N. T. LUPTON,* 1885, in the absence of W. R. NICHOLS.*
35. H. W. WILEY, 1886.
36. A. B. PRESCOTT, 1887.
37. C. E. MUNROE, 1888.
38. W. L. DUDLEY, 1889.
39. R. B. WARDER, 1890.
40. R. C. KEDZIE, 1891.
41. ALFRED SPRINGER, 1892.
42. EDWARD HART, 1893.
43. T. H. NORTON, 1894.
44. WM. MCMURTRIE, 1895.
45. W. A. NOYES, 1896.
46. W. P. MASON, 1897.
47. EDGAR F. SMITH, 1898.
48. F. P. VENABLE, 1899.
49. JAS. LEWIS HOWE, 1900.
50. JOHN H. LONG, 1901.
51. H. A. WEBER, 1902.

Section D.—Mechanical Science and Engineering.

31. W. P. TROWBRIDGE,* 1882.
32. DEVOLSON WOOD, 1883, absent, but place was not filled.
33. R. H. THURSTON, 1884.
34. J. BURKITT WEBB, 1885.
35. O. CHANUTE, 1886.
36. E. B. COXE, 1887.
37. C. J. H. WOODBURY, 1888.
38. JAMES E. DENTON, 1889.
39. JAMES E. DENTON, 1890, in place of A. BEARDSLEY, absent.

VICE-PRESIDENTS OF SECTIONS, CONTINUED.

Section D—Mechanical Science and Engineering, continued.

40. THOMAS GRAY, 1891.
41. J. B. JOHNSON, 1892.
42. S. W. ROBINSON, 1893.
43. MANSFIELD MERRIMAN, 1894.
44. WILLIAM KENT, 1895.
45. FRANK O. MARVIN, 1896.
46. JOHN GALBRAITH, 1897.
47. JOHN GALBRAITH, 1898, in the absence of M.E.COOLEY.
48. STORM BULL, 1899.
49. JOHN A. BRASHEAR, 1900.
50. H. S. JACOBY, 1901.
51. J. J. FLATHER, 1902.

Section E.—Geology and Geography.

31. E. T. COX, 1882.
32. C. H. HITCHCOCK, 1883.
33. N. H. WINCHELL, 1884.
34. EDWARD ORTON,* 1885.
35. T. C. CHAMBERLIN, 1886.
36. G. K. GILBERT, 1887.
37. GEORGE H. COOK,* 1888.
38. CHARLES A. WHITE, 1889.
39. JOHN C. BRANNER, 1890.
40. J. J. STEVENSON, 1891.
41. H. S. WILLIAMS, 1892.
42. CHARLES D. WALCOTT, 1893.
43. SAMUEL CALVIN, 1894.
44. JED. HOTCHKISS, 1895.
45. B. K. EMERSON, 1896.
46. { I. C. WHITE, 1897. / E. W. CLAYPOLE,* 1897.
47. H. L. FAIRCHILD, 1898.
48. J. F. WHITEAVES, 1899.
49. J. F. KEMP, 1900.
50. C. R. VAN HISE, 1901.
51. O. A. DERBY, 1902.

Section F.—Biology, 1882–1892.

31. W. H. DALL, 1882.
32. W. J. BEAL, 1883.
33. E. D. COPE,* 1884.
34. T. J. BURRILL, 1885, in the absence of B. G. WILDER.
35. H. P. BOWDITCH, 1886.
36. W. G. FARLOW, 1887.
37. C. V. RILEY,* 1888.
38. GEORGE L. GOODALE, 1889.
39. C. S. MINOT, 1890.
40. J. M. COULTER, 1891.
41. S. H. GAGE, 1892.

Section F.— oology.

42. HENRY F. OSBORN, 1893.
43. J. A. LINTNER,* 1894, in place of S. H. SCUDDER, res'd.
44. L. O. HOWARD, 1895, in place of D. S. JORDAN, res'd.
45. THEO. GILL, 1896.
46. L. O. HOWARD, 1897, in place of G. BROWN GOODE,* deceased.
47. A. S. PACKARD, 1898.
48. S. H. GAGE, 1899.
49. C. B. DAVENPORT, 1900.
50. D. S. JORDAN, 1901.
51. C. C. NUTTING, 1902.

Section G. Microscopy, 1882–85.

31. A. H. TUTTLE, 1882.
32. J. D. COX, 1883.
33. T. G. WORMLEY,* 1884.
34. S. H. GAGE, 1885.

(Section united with F in 1886)

Section G.—Botany.

42. CHARLES E. BESSEY, 1893.
43. { L. M. UNDERWOOD, 1894. / C. E. BESSEY, 1894.
44. J. C. ARTHUR, 1895.
45. N. L. BRITTON, 1896.
46. G. F. ATKINSON, 1897.
47. W. G. FARLOW, 1898.
48. C. R. BARNES, 1899.
49. W. TRELEASE, 1900.
50. B. T. GALLOWAY, 1901.
51. D. H. CAMPBELL, 1902.

VICE-PRESIDENTS OF SECTIONS, CONTINUED.

Section H.—Anthropology.

31. ALEX. WINCHELL,* 1882.
32. OTIS T. MASON, 1883.
33. EDWARD S. MORSE, 1884.
34. J. OWEN DORSEY,* 1885, in the absence of W. H. DALL.
35. HORATIO HALE,* 1886.
36. D. G. BRINTON,* 1887.
37. CHARLES C. ABBOTT, 1888.
38. GARRICK MALLERY,* 1889.
39. FRANK BAKER, 1890.
40. JOSEPH JASTROW, 1891.
41. W. H. HOLMES, 1892.
42. J. OWEN DORSEY,* 1893.
43. FRANZ BOAS, 1894.
44. F. H. CUSHING,* 1895.
45. ALICE C. FLETCHER, 1896.
46. W J MCGEE, 1897.
47. J. MCK. CATTELL, 1898.
48. THOMAS WILSON,* 1899.
49. A. W. BUTLER, 1900.
50. J. WALTER FEWKES, 1901.
51. STEWART CULIN, 1902.

Section I.—Social and Economic Science.

31. E. B. ELLIOTT,* 1882.
32. FRANKLIN B. HOUGH,* 1883.
33. JOHN EATON,* 1884.
34. EDWARD ATKINSON, 1885.
35. JOSEPH CUMMINGS,* 1886.
36. H. E. ALVORD, 1887.
37. CHARLES W. SMILEY, 1888.
38. CHARLES S. HILL, 1889.
39. J. RICHARDS DODGE, 1890.
40. EDMUND J. JAMES, 1891.
41. L. F. WARD, 1892, in place of S. D. HORTON,* resigned.
42. WILLIAM H. BREWER, 1893.
43. HENRY FARQUHAR, 1894.
44. B. E. FERNOW, 1895.
45. W. L. LAZENBY, 1896.
46. R. T. COLBURN, 1897.
47. ARCHIBALD BLUE, 1898.
48. MARCUS BENJAMIN, 1899.
49. MARCUS BENJAMIN, 1900, in the absence of C. M. WOODWARD.
50. JOHN HYDE, 1901.
51. CARROLL D. WRIGHT, 1902.

Section K.—Physiology and Experimental Medicine.

51. W. H. WELCH, 1902.

SECRETARIES.

General Secretaries, 1848–

1. WALTER R. JOHNSON,* 1848
2. E. N. HORSFORD,* 1849, in the absence of JEFFRIES WYMAN.*
3. L. R. GIBBS, 1850, in the absence of E. C. HERRICK.*
4. E. C. HERRICK,* 1850.
5. WM. B. ROGERS,* 1851, in the absence of E. C. HERRICK.*
6. WM. B. ROGERS,* 1851.
7. S. ST. JOHN,* 1853, in the absence of J. D. DANA.*
8. J. LAWRENCE SMITH,* 1854.
9. WOLCOTT GIBBS, 1855.
10. B. A. GOULD,* 1856.
11. JOHN L. LECONTE,* 1857.
12. W. M. GILLESPIE,* 1858, in the absence of WM. CHAUVENET,*
13. WM. CHAUVENET,* 1859.
14. JOSEPH LECONTE,* 1860.
15. ELIAS LOOMIS,* 1866, in the absence of W. P. TROWBRIDGE.*
16. C. S. LYMAN,* 1867.
17. SIMON NEWCOMB, 1868, in the absence of A. P. ROCKWELL.
18. O. C. MARSH,* 1869.
19. F. W. PUTNAM, 1870, in the absence of C. F. HARTT.*
20. F. W. PUTNAM, 1871.

SECRETARIES, CONTINUED.

21. EDWARD S. MORSE, 1872.
22. C. A. WHITE, 1873.
23. A. C. HAMLIN, 1874.
24. S. H. SCUDDER, 1875.
25. T. C. MENDENHALL, 1876.
26. AUG. R. GROTE, 1877.
27. H. C. BOLTON, 1878.
28. H. C. BOLTON, 1879, in the absence of GEORGE LITTLE.
29. J. K. REES, 1880.
30. C. V. RILEY,* 1881.
31. WILLIAM SAUNDERS, 1882.
32. J. R. EASTMAN, 1883.
33. ALFRED SPRINGER, 1884.
34. C. S. MINOT, 1885.
35. S. G. WILLIAMS,* 1886.
36. WILLIAM H. PETTEE, 1887.
37. JULIUS POHLMAN, 1888.
38. C. LEO MEES, 1889.
39. H. C. BOLTON, 1890.
40. H. W. WILEY, 1891.
41. A. W. BUTLER, 1892.
42. T. H. NORTON, 1893.
43. H. L. FAIRCHILD, 1894.
44. JAS. LEWIS HOWE, 1895.
45. CHARLES R. BARNES, 1896.
46. ASAPH HALL, JR., 1897.
47. J. MCMAHON, 1898, in place of D.S.KELLICOTT,*deceased.
48. F. BEDELL, 1899.
49. CHAS. BASKERVILLE, 1900.
50. JOHN M. COULTER, 1901, in the absence of WILLIAM HALLOCK.
51. D. T. MACDOUGAL, 1902.

Permanent Secretaries, 1851–

5–7. SPENCER F. BAIRD,*1851–4
8–17. JOSEPH LOVERING,*1854–68.
18. F. W. PUTNAM, 1869, in the absence of J. LOVERING.*
19–21. JOSEPH LOVERING,* 1870–73.
22–46. F. W. PUTNAM, 1873–98.
47–53. L. O. HOWARD, 1898–05.

Assistant General Secretaries, 1882–1887.

31. J. R. EASTMAN, 1882.
32. ALFRED SPRINGER, 1883.
33. C. S. MINOT, 1884, in the absence of E. S. HOLDEN.
34. S. G. WILLIAMS,* 1885, in the absence of C. C. ABBOTT.
35. W. H. PETTEE, 1886.
36. J. C. ARTHUR, 1887.

Secretaries of the Council, 1888–

37. C. LEO MEES, 1888.
38. H. C. BOLTON, 1889.
39. H. W. WILEY, 1890.
40. A. W. BUTLER, 1891.
41. T. H. NORTON, 1892.
42. H. LEROY FAIRCHILD, 1893.
43. JAS. LEWIS HOWE, 1894.
44. CHARLES R. BARNES, 1895.
45. ASAPH HALL, JR., 1896.
46. D. S. KELLICOTT,* 1897.
47. FREDERICK BEDELL, 1898.
48. CHARLESBASKERVILLE,1899.
49. WILLIAM HALLOCK, 1900.
50. D. T. MACDOUGAL, 1901.
51. H. B. WARD, 1902.

Secretaries of Section A.—Mathematics, Physics and Chemistry, 1875–1881.

24. { S. P. LANGLEY, 1875.
{ T. C. MENDENHALL, 1875.
25. A. W. WRIGHT, 1876.
26. H. C. BOLTON, 1877.
27. F. E. NIPHER, 1878.
28. J. K. REES, 1879.
29. H. B. MASON, 1880.
30. E. T. TAPPAN, 1881, in the absence of JNO. TROWBRIDGE.

Secretaries of Section B.—Natural History, 1874–1881.

24. EDWARD S. MORSE, 1875.
25. ALBERT H. TUTTLE, 1876.
26. WILLIAM H. DALL, 1877.

SECRETARIES, CONTINUED.

27. GEORGE LITTLE, 1878.
28. WM. H. DALL, 1879, in the absence of A. C. WETHERBY.
29. CHARLES V. RILEY,* 1880.
30. WILLIAM SAUNDERS, 1881.

SECRETARIES OF SUBSECTIONS, 1875–1881.

Subsection of Chemistry.

24. F. W. CLARKE, 1875.
25. H. C. BOLTON, 1876.
26. P. SCHWEITZER, 1877.
27. A. P. S. STUART, 1878.
28. W. R. NICHOLS,* 1879.
29. C. E. MUNROE, 1880.
30. ALFRED SPRINGER, 1881, in the absence of R. B. WARDER.

Subsection of Entomology.

30. B. P. MANN, 1881.

Subsection of Anthropology.

24. F. W. PUTNAM, 1875.
25. OTIS T. MASON, 1876.
26, 27. United with Section B.
28, 29, 30. J. G. HENDERSON, 1879–81.

Subsection of Microscopy.

25. E. W. MORLEY, 1876.
26. T. O. SOMMERS, JR., 1877.
27. G. J. ENGELMANN, 1878.
28, 29. A. B. HERVEY, 1879–80.
30. W. H. SEAMAN, 1881, in the absence of S. P. SHARPLES.

SECRETARIES OF THE SECTIONS, 1882–

Section A.—Mathematics and Astronomy.

31. H. T. EDDY, 1882.
32. G. W. HOUGH, 1883, in the absence of W. W. JOHNSON.
33. G. W. HOUGH, 1884.
34. E. W. HYDE, 1885.
35. S. C. CHANDLER, 1886.
36. H. M. PAUL, 1887.
37. C. C. DOOLITTLE, 1888.
38. G. C. COMSTOCK, 1889.
39. W. W. BEMAN, 1890.
40. F. H. BIGELOW, 1891.
41. WINSLOW UPTON, 1892.
42. C. A. WALDO, 1893, in the absence of A. W. PHILLIPS.
43. J. C. KERSHNER, 1894, in place of W. W. BEMAN, res'd.
44. ASAPH HALL, JR., 1895, in place of E. H. MOORE, res'd.
45. EDWIN B. FROST, 1896.
46. JAMES MCMAHON, 1897.
47. WINSLOW UPTON, 1898, in place of ALEX. ZIWET, resigned.
48. JOHN F. HAYFORD, 1899.
49. W. M. STRONG, 1900.
50. G. A. MILLER, 1901, in place of H. C. LORD, resigned.
51. E. S. CRAWLEY, 1902.

Section B.—Physics.

31. C. S. HASTINGS, 1882.
32. F. E. NIPHER, 1883, in the absence of C. K. WEAD.
33. N. D. C. HODGES, 1884.
34. B. F. THOMAS, 1885, in place of A. A. MICHELSON, resigned.
35. H. S. CARHART, 1886.
36. C. LEO MEES, 1887.
37. ALEX. MACFARLANE, 1888.
38. E. L. NICHOLS, 1889.
39. E. M. AVERY, 1890.
40. ALEX. MACFARLANE, 1891.
41. BROWN AYRES, 1892.
42. W. LECONTE STEVENS, 1893.
43. B. W. SNOW, 1894.
44. E. MERRITT, 1895.
45. FRANK P. WHITMAN, 1896.
46. FREDERICK BEDELL, 1897.

SECRETARIES OF THE SECTIONS, CONTINUED.

47. W. S. FRANKLIN, 1898, in place of E. B. ROSA, resigned.
48. WILLIAM HALLOCK, 1899.
49. R. A. FESSENDEN, 1900.
50. JOHN ZELENY, 1901, in place of J. O. REED, resigned.
51. E. F. NICHOLS, 1902.

Section C.—Chemistry.

31. ALFRED SPRINGER, 1882.
32. { J. W. LANGLEY, 1883. W. MCMURTRIE, 1883.
33. H. CARMICHAEL, 1884, in the absence of R. B. WARDER.
34. F. P. DUNNINGTON, 1885.
35. W. MCMURTRIE, 1886.
36. C. F. MABERY, 1887.
37. W. L. DUDLEY, 1888.
38. EDWARD HART, 1889.
39. W. A. NOYES, 1890.
40. T. H. NORTON, 1891.
41. JAS. LEWIS HOWE, 1892.
42. H. N. STOKES, 1893, in the absence of J. U. NEF.
43. MORRIS LOEB, 1894, in place of S. M. BABCOCK, resigned.
44. { W. P. MASON, 1895. W. O. ATWATER, 1895.
45. FRANK P. VENABLE, 1896.
46. P. C. FREER, 1897.
47. C. BASKERVILLE, 1898.
48. H. A. WEBER, 1899.
49. A. A. NOYES, 1900.
50. W. MCPHERSON, 1901.
51. F. C. PHILLIPS, 1902.

Section D.—Mechanical Science and Engineering.

31. J. BURKITT WEBB, 1882, in the absence of C. B. DUDLEY.
32. J. BURKITT WEBB, 1883, *pro tempore.*
33. J. BURKITT WEBB, 1884.
34. C. J. H. WOODBURY, 1885.
35. WILLIAM KENT, 1886.
36. G. M. BOND, 1887.
37. ARTHUR BEARDSLEY, 1888.
38. W. B. WARNER, 1889.
39. THOMAS GRAY, 1890.
40. WILLIAM KENT, 1891.
41. O. H. LANDRETH, 1892.
42. D. S. JACOBUS, 1893.
43. JOHN H. KINEALY, 1894.
44. H. S. JACOBY, 1895.
45. JOHN GALBRAITH, 1896.
46. JOHN J. FLATHER, 1897.
47. W. S. ALDRICH, 1898.
48. J. M. PORTER, 1899.
49. W. T. MAGRUDER, 1900.
50. C. W. COMSTOCK, 1901, in the absence of W. H. JAQUES.
51. C. A. WALDO, 1902.

Section E.—Geology and Geography.

31. H. S. WILLIAMS, 1882, in the absence of C. E. DUTTON.
32. A. A. JULIEN, 1883.
33. E. A. SMITH, 1884.
34. G. K. GILBERT, 1885, in the absence of H. C. LEWIS.*
35. E. W. CLAYPOLE,* 1886.
36. W. M. DAVIS, 1887, in the absence of T. B. COMSTOCK.
37. JOHN C. BRANNER, 1888.
38. JOHN C. BRANNER, 1889.
39. SAMUEL CALVIN, 1890.
40. W J MCGEE, 1891.
41. R. D. SALISBURY, 1892.
42. W. H. HOBBS,* 1893, in place of R. T. HILL, resigned.
43. JED. HOTCHKISS,* 1894, in place of W. M. DAVIS, res'd
44. J. PERRIN SMITH, 1895.
45. W. N. RICE, 1896, in place of A. C. GILL, resigned.
46. C. H. SMITH, JR., 1897.
47. WARREN UPHAM, 1898.
48. ARTHUR HOLLICK, 1899.
49. J. A. HOLMES, 1900.

SECRETARIES OF THE SECTIONS, CONTINUED.

50. H. B. PATTON, 1901, in the absence of R. A. F. PENROSE.
51. F. P. GULLIVER, 1902.

Section F.—Biology, 1882–1892.

31. WILLIAM OSLER, 1882, in the absence of C. S. MINOT.
32. S. A. FORBES, 1883.
33. C. E. BESSEY, 1884.
34. J. A. LINTNER,* 1885, in place of C. H. FERNALD, res'd
35. J. C. ARTHUR, 1886.
36. J. H. COMSTOCK, 1887.
37. B. E. FERNOW, 1888.
38. A. W. BUTLER, 1889.
39. J. M. COULTER, 1890.
40. A. J. COOK, 1891.
41. D. B. HALSTEAD, 1892.

Section F.—Zoology.

42. L. O. HOWARD, 1893.
43. JOHN B. SMITH, 1894, in place of WM. LIBBY, JR., resigned.
44. C. W. HARGITT, 1895, in place of S. A. FORBES, res'd
45. D. S. KELLICOTT,* 1896.
46. C. C. NUTTING, 1897.
47. R. T. JACKSON, 1898, in place of C. W. STILES, resigned
48. C. L. MARLATT, 1899, in place of F. W. TRUE, resigned.
49. C. H. EIGENMANN, 1900.
50. H. B. WARD, 1901.
51. C. W. STILES, 1902.

Section G.—Microscopy, 1882–85

31. ROBERT BROWN, JR., 1882.
32. CARL SEILER, 1883.
33. ROMYN HITCHCOCK, 1884.
34. W. H. WALMSLEY, 1885.

Section G.—Botany.

42. B. T. GALLOWAY, 1893, in the absence of F. V. COVILLE.
43. CHAS. R. BARNES, 1894.
44. { B. T. GALLOWAY, 1895. M. B. WAITE, 1895.
45. GEORGE F. ATKINSON, 1896.
46. F. C. NEWCOMBE, 1897.
47. ERWIN F. SMITH, 1898.
48. W. A. KELLERMAN, 1899.
49. D. T. MACDOUGAL, 1900.
50. ERNST A. BESSEY, 1901, in the absence of A. S. HITCHCOCK
51. H. VON SCHRENK, 1902.

Section H.—Anthropology.

31 OTIS T. MASON, 1882.
32. G. H. PERKINS, 1883.
33. G. H. PERKINS, 1884, in the absence of W. H. HOLMES.
34. ERMINNIE A. SMITH,* 1885.
35. A. W. BUTLER, 1886.
36. CHAS. C. ABBOTT, 1887, in the absence of F. W. LANGDON.
37. FRANK BAKER, 1888.
38. W. M. BEAUCHAMP, 1889.
39. JOSEPH JASTROW, 1890.
40. W. H. HOLMES, 1891.
41. W. M. BEAUCHAMP, 1892, in place of S. CULIN, resigned.
42. W. K. MOOREHEAD, 1893.
43. A. F. CHAMBERLIN, 1894.
44. { STEWART CULIN and W. W. TOOKER, 1895, in place of ANITA N. MCGEE, resigned.
45. G. H. PERKINS, 1896, in place of J. G. BOURKE,* dec'd.
46. ANITA N. MCGEE, 1897, in place of HARLAN I. SMITH, resigned.
47. MARSHALL H. SAVILLE, 1898.
48. E. W. SCRIPTURE, 1899, in place of GEO. A. DORSEY, resigned.
49. FRANK RUSSELL, 1900.
50. G. G. MACCURDY, 1901.
51. HARLAN I. SMITH, 1902.

SECRETARIES OF THE SECTIONS, CONTINUED.

Section I.—Social and Economic Science.

31. { FRANKLIN B. HOUGH,* 1882
{ J. RICHARDS, DODGE, 1882
32. JOSEPH CUMMINGS,* 1883.
33. CHARLES W. SMILEY, 1884.
34. CHAS. W. SMILEY, 1885, in the absence of J. W. CHICKERING.
35. H. E. ALVORD, 1886.
36. W. R. LAZENBY, 1887.
37. CHARLES S. HILL, 1888.
38. J. RICHARDS DODGE, 1889.
39. B. E. FERNOW, 1890.
40. B. E. FERNOW, 1891.
41. HENRY FARQUHAR, 1892, in place of L. F. WARD, made Vice President.
42. NELLIE S. KEDZIE, 1893.
43. MANLEY MILES, 1894.
44. W. R. LAZENBY, 1895, in place of E. A. ROSS, resigned.
45. R. T. COLBURN, 1896,
46. ARCHIBALD BLUE, 1897.
47. MARCUS BENJAMIN, 1898.
48. CALVIN M. WOODWARD, 1899.
49. H. T. NEWCOMB, 1900.
50. R. A. PEARSON, 1901, in place of CORA A. BENNESON, resigned.
51. F. R. RUTTER, 1902, in place of Walter F. Willcox, resigned.

Section K.—Physiology and Experimental Medicine.

51. F. S. LEE, 1902.

TREASURERS.

1. JEFFRIES WYMAN,* 1848.
2. A. L. ELWYN,* 1849.
3. ST. J. RAVENEL,* 1850, in the absence of A. L. ELWYN.*
4. A. L. ELWYN,* 1850.
5. SPENCER F. BAIRD,* 1851, in the absence of A. L. ELWYN,*
6–7. A. L. ELWYN,* 1851–53.
8. J. L. LECONTE,* 1854, in the absence of A. L. ELWYN.*
9–19. A. L. ELWYN,* 1855–1870.
20–30. WM. S. VAUX,* 1871–1881.
32–42. WM. LILLY,* 1882–93.
43–49. R. S. WOODWARD, 1894–1900.
50–54. R. S. WOODWARD, 1901–1904.

Commonwealth of Massachusetts.

In the Year One Thousand Eight Hundred and Seventy-Four.

AN ACT

TO INCORPORATE THE "AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE."

Be it enacted by the Senate and House of Representatives, in General Court assembled, and by the authority of the same, as follows:

SECTION 1. Joseph Henry of Washington, Benjamin Pierce of Cambridge, James D. Dana of New Haven, James Hall of Albany, Alexis Caswell of Providence, Stephen Alexander of Princeton, Isaac Lea of Philadelphia, F. A. P. Barnard of New York, John S. Newberry of Cleveland, B. A. Gould of Cambridge, T. Sterry Hunt of Boston, Asa Gray of Cambridge, J. Lawrence Smith of Louisville, Joseph Lovering of Cambridge, and John LeConte of Philadelphia, their associates, the officers and members of the Association, known as the "American Association for the Advancement of Science," and their successors, are hereby made a corporation by the name of the "American Association for the Advancement of Science," for the purpose of receiving, purchasing, holding, and conveying real and personal property, which it now is, or hereafter may be, possessed of, with all the powers and privileges, and subject to the restrictions, duties and liabilities set forth in the general laws which now or hereafter may be in force and applicable to such corporations.

SECTION 2. Said corporation may have and hold by purchase, grant, gift, or otherwise, real estate not exceeding one hundred thousand dollars in value, and personal estate of the value of two hundred and fifty thousand dollars.

SECTION 3. Any two of the corporators above named are hereby authorized to call the first meeting of the said corporation in the month of August next ensuing, by notice thereof "by mail," to each member of the said Association.

SECTION 4. This act shall take effect upon its passage.

HOUSE OF REPRESENTATIVES, March 10, 1874.
Passed to be enacted,
JOHN E. SANFORD, *Speaker.*

IN SENATE, March 17, 1874.
Passed to be enacted,
GEO. B. LORING, *President.*

March 19, 1874.
Approved.
W. B. WASHBURN.

SECRETARY'S DEPARTMENT,
Boston, April 3, 1874.
A true copy, Attest:
DAVID PULSIFER,
Deputy Secretary of the Commonwealth.

CONSTITUTION

OF THE

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

Incorporated by Act of the General Court of the Commonwealth of Massachusetts.

OBJECTS.

ARTICLE 1. The objects of the Association are, by periodical and migratory meetings, to promote intercourse between those who are cultivating science in different parts of America, to give a stronger and more general impulse and more systematic direction to scientific research, and to procure for the labors of scientific men increased facilities and a wider usefulness.

MEMBERSHIP.

ART. 2. The Association shall consist of members, fellows, patrons, corresponding members and honorary fellows.

MEMBERS.

ART. 3. Any person may become a member of the Association upon recommendation in writing by two members or fellows, and election by the Council. Any incorporated scientific society or institution, or any public or incorporated library, may be enrolled as a member of the Association by vote of the Council by payment of the initiation fee; such society, institution, or library may be represented by either the President, Curator, Director, or Librarian presenting proper credentials at any meeting of the Association for which the assessment has been paid.

ASSOCIATES.

Associates for any single meeting shall be admitted on the payment of three dollars, such associates to have all the privileges of the meeting, except reading papers and voting.

Members of scientific societies whose meetings are contemporaneous with, or immediately subsequent to, that of the Associa-

tion, and which are recognized by vote of the Council as "Affiliated Societies," may become associate members for that meeting on the payment of three dollars. They shall be entitled to all the privileges of membership except voting or appointment to office, but their names shall not appear in the list of members printed in the annual report.

Foreign Associates.

Any member or fellow of any national scientific or educational institution, or of any society or academy of science, of any country not in America, who may be present at any meeting of the Association shall, on presenting the proper credentials, be enrolled without fee as a Foreign Associate, and shall be entitled to all the privileges of the meeting except voting on matters of business.

Fellows.

Art. 4. Fellows shall be elected by the Council from such of the members as are professionally engaged in science, or have, by their labors, aided in advancing science. The election of fellows shall be by ballot, and a majority vote of the members of the Council at a designated meeting of the Council.

Patrons.

Art. 5. Any person paying to the Association the sum of one thousand dollars shall be classed as a patron, and shall be entitled to all the privileges of a member and to all its publications.

Honorary Fellows and Corresponding Members.

Art. 6. Honorary fellows of the Association, not exceeding three for each Section, may be elected, the nominations to be made by the Council and approved by ballot in the respective sections before election by ballot in General Session. Honorary fellows shall be entitled to all the privileges of fellows, and shall be exempt from all fees and assessments, and entitled to all publications of the Association issued after the date of their election. Corresponding members shall consist of such scientists not residing in America as may be elected by the Council, and their number shall be limited to fifty. Corresponding members shall be entitled to

all the privileges of members and to the annual volumes of Proceedings published subsequent to their election.

SUSPENSIONS.

ART. 7. The name of any member or fellow two years in arrears for annual dues shall be erased from the list of the Association, provided, that two notices of indebtedness, at an interval of at least three months, shall have been given; and no such person shall be restored until he has paid his arrearages or has been re-elected. The Council shall have power to exclude from the Association any member or fellow, on satisfactory evidence that said member or fellow is an improper person to be connected with the Association, or has in the estimation of the Council made improper use of his membership or fellowship.

OFFICERS.

ART. 8. No member or fellow shall take part in the organization of, or hold office in, more than one section at any one meeting.

ART. 9. The officers of the Association shall be elected by ballot by the General Committee from the fellows, and shall consist of a President, a Vice-President from each section, a Permanent Secretary, a General Secretary, a Secretary of the Council, a Treasurer, and a Secretary of each Section; these, with the exception of the Permanent Secretary and the Treasurer, shall be elected at each meeting for the following one, and, with the exception of the Treasurer and the Permanent Secretary, shall not be reeligible for the next two meetings. The term of office of the Permanent Secretary and of the Treasurer shall be five years.

PRESIDENT.

ART. 10. The President, or, in his absence, the senior Vice-President present, shall preside at all General Sessions of the Association and at all meetings of the Council. It shall also be the duty of the President to give an address at a General Session of the Association at the meeting following that over which he presided.

VICE-PRESIDENTS.

ART. 11. The Vice-Presidents shall be chairmen of their respective Sections, and of their Sectional Committees, and it

shall be part of their duty to give an address, each before his own Section, at such time as the Council shall determine at the meeting subsequent to that at which he presides. The Vice-Presidents may appoint temporary chairmen to preside over the sessions of their sections, but shall not delegate their other duties. The Vice-Presidents shall have seniority in order of their continuous membership in the Association.

General Secretary.

Art. 12. The General Secretary shall be the Secretary of all General Sessions of the Association, and shall keep a record of the business of these sessions. He shall receive the records from the Secretaries of the Sections, which, after examination, he shall transmit with his own records to the Permanent Secretary within two weeks after the adjournment of the meeting.

Secretary of the Council.

Art. 13. The Secretary of the Council shall keep the records of the Council. He shall give to the Secretary of each Section the titles of papers assigned to it by the Council. He shall receive proposals for membership and bring them before the Council.

Permanent Secretary.

Art. 14. The Permanent Secretary shall be the executive officer of the Association under the direction of the Council. He shall attend to all business not specially referred to committees nor otherwise constitutionally provided for. He shall keep an account of all business that he has transacted for the Association, and make annually a general report for publication in the annual volume of Proceedings. He shall attend to the printing and distribution of the annual volume of Proceedings, and all other printing ordered by the Association. He shall issue a circular of information to members and fellows at least three months before each meeting, and shall, in connection with the Local Committee, make all necessary arrangements for the meetings of the Association. He shall provide the Secretaries of the Association with such books and stationery as may be required for their records and business, and shall provide members and fellows with such blank forms as may be required for facilitating the business of the Association. He shall collect all assessments

and admission fees, and notify members and fellows of their election, and of any arrearages. He shall receive, and bring before the Council, the titles and abstracts of papers proposed to be read before the Association. He shall keep an account of all receipts and expenditures of the Association, and report the same annually at the first meeting of the Council, and shall pay over to the Treasurer such unexpended funds as the Council may direct. He shall receive and hold in trust for the Association all books, pamphlets, and manuscripts belonging to the Association, and allow the use of the same under the provisions of the Constitution and the orders of the Council. He shall receive all communications addressed to the Association during the intervals between meetings, and properly attend to the same. He shall at each meeting report the names of fellows and members who have died since the preceding meeting. He shall be allowed a salary which shall be determined by the Council, and may employ one or more clerks at such compensation as may be agreed upon by the Council.

TREASURER.

ART. 15. The Treasurer shall invest the funds received by him in such securities as may be directed by the Council. He shall annually present to the Council an account of the funds in his charge. No expenditure of the principal in the hands of the Treasurer shall be made without a unanimous vote of the Council, and no expenditure of the income received by the Treasurer shall be made without a two-thirds vote of the Council. The Treasurer shall give bonds for the faithful performance of his duty in such manner and sum as the Council shall from time to time direct.

SECRETARIES OF THE SECTIONS.

ART. 16. The Secretaries of the Sections shall keep the records of their respective Sections, and, at the close of the meeting, give the same, including the records of subsections, to the General Secretary. They shall also be the Secretaries of the sectional committees. The Secretaries shall have seniority in order of their continuous membership in the Association.

VACANCIES.

ART. 17. In case of a vacancy in the office of President, the

senior Vice-President shall preside, as provided in Article 10, until the General Committee can be assembled and the vacancy filled by election. Vacancies in the offices of Vice-President, Permanent Secretary, Secretary of the Council, Secretaries of the Sections, and Treasurer, shall be filled by the Council by ballot.

COUNCIL.

ART. 18. The Council shall consist of the Past Presidents, and the Vice-Presidents of the last two meetings, together with the President, the Vice-Presidents, the Permanent Secretary, the General Secretary, the Secretary of the Council, the Secretaries of the Sections, and the Treasurer of the current meeting, of one fellow elected from each Section by ballot on the first day of its meeting, of one fellow elected by each affiliated society, and one additional fellow from each affiliated society having more than twenty-five members who are fellows of the Association. The members present at any regularly called meeting of the Council, provided there are at least five, shall form a quorum for the transaction of business. The Council shall meet on the day preceding each annual meeting of the Association, and arrange the program for the first day of the sessions. The time and place of this first meeting shall be designated by the Permanent Secretary. Unless otherwise agreed upon, regular meetings of the Council shall be held in the Council room at 9 o'clock, A. M., on each day of the meeting of the Association. Special meetings of the Council may be called at any time by the President. The Council shall be the board of supervision of the Association, and no business shall be transacted by the Association that has not first been referred to, or originated with, the Council. The Council shall decide which papers, discussions, and other proceedings shall be published, and have the general direction of the publications of the Association; manage the financial affairs of the Association; arrange the business and programs for General Sessions; suggest subjects for discussion, investigation or reports; elect members and fellows; and receive and act upon all invitations extended to the Association and report the same at a General Session of the Association. The Council shall receive all reports of Special Committees and decide upon them, and only such shall be read in General

Session as the Council shall direct. The Council shall appoint at each meeting the following subcommittees who shall act, subject to appeal to the whole Council, until their successors are appointed at the following meeting: 1, on Papers and Reports; 2, on Members; 3, on Fellows.

General Committee.

Art. 19. The General Committee shall consist of the Council and one member or fellow elected by each of the Sections, who shall serve until their successors are elected. It shall be the duty of the committee to meet at the call of the President and elect the general officers for the following meeting of the Association. It shall also be the duty of this committee to fix the time and place for the next meeting. The Vice-President and Secretary of each Section shall be recommended to the General Committee by the Sectional Committee.

Meetings.

Art. 20. The Association shall hold a public meeting annually, for one week or longer, at such time and place as may be determined by vote of the General Committee, and the preliminary arrangements for each meeting shall be made by the Local Committee, in conjunction with the Permanent Secretary and such other persons as the Council may designate.

But if suitable preliminary arrangements cannot be made, the Council may afterward change the time and place appointed by the General Committee, if such change is believed advisable, by two-thirds of the members present.

Art. 21. A General Session shall be held at 10 o'clock, A. M., on the first day of the meeting, and at such other times as the Council may direct.

Sections and Subsections.

Art. 22. The Association shall be divided into Sections, namely:—A, *Mathematics and Astronomy;* B, *Physics;* C, *Chemistry, including its application to Agriculture and the Arts;* D, *Mechanical Science and Engineering;* E, *Geology and Geography;* F, *Zoology;* G, *Botany;* H, *Anthropology;* I, *Social and Economic Science;* K, *Physiology and Experimental Medicine.* The Council shall have

power to consolidate any two or more Sections temporarily, and such consolidated Sections shall be presided over by the senior Vice-President and Secretary of the Sections comprising it.

Sectional Committees.

Art. 23. Immediately on the organization of a Section there shall be three members or fellows elected by ballot after open nomination, who, with the Vice-President and Secretary and the Vice-President and Secretary of the preceding meeting, shall form its Sectional Committee. The Sectional Committees shall have power to fill vacancies in their own numbers. Meetings of the Sections shall not be held at the same time with a General Session. The Sectional Committee may invite distinguished foreign associates present at any meeting to serve as honorary members of said Committee.

Art. 24. The Sectional Committee of any Section may at its pleasure form one or more temporary Subsections, and may designate the officers thereof. The Secretary of a Subsection shall, at the close of the meeting, transmit his records to the Secretary of the Section.

Art. 25. No paper shall be read in any Section or Subsection until it has been placed on the program of the day by the Sectional Committee.

Art. 26. The Sectional Committees shall arrange and direct the business of their respective Sections. They shall prepare the daily programs and give them to the Permanent Secretary for printing at the earliest moment practicable. No titles of papers shall be entered on the daily programs except such as have passed the Committee. No change shall be made in the program for the day in a Section without the consent of the Sectional Committee. The Sectional Committees may refuse to place the title of any paper on the program; but every such title, with the abstract of the paper or the paper itself, must be referred to the Council with the reasons why it was refused. The Sectional Committee shall also make nominations to the General Committee for Vice-President and Secretary of their respective Sections as provided for in Article 19.

Art. 27. The Sectional Committees shall examine all papers and abstracts referred to the Sections, and they shall not place on the program any paper inconsistent with the character of

the Association; and to this end they have power to call for any paper, the character of which may not be sufficiently understood from the abstract submitted.

Papers and Communications.

Art. 28. All members and fellows must forward to the Secretary of the proper Section or to the Permanent Secretary, as early as possible. and when practicable before the convening of the Association, full titles of all the papers which they propose to present during the meeting, with a statement of the time that each will occupy in delivery, and also such abstracts of their contents as will give a general idea of their nature; and no title shall be considered by a Sectional Committee until an abstract of the paper or the paper itself has been received.

Art. 29. If the author of any paper be not ready when called upon, in the regular order of the official program, the title may be dropped to the bottom of the list.

Art. 30. Whenever practicable the proceedings and discussions at General Sessions, Sections and Subsections, shall be reported by professional reporters, but such reports shall not appear in print as the official reports of the Association unless revised by the Secretaries.

Printed Proceedings.

Art. 31. The Permanent Secretary shall have the Proceedings of each meeting printed in an octavo volume as soon after the meeting as possible, beginning one month after adjournment. Authors must prepare their papers or abstracts ready for the press, and these must be in the hands of the Secretaries of the Sections before the final adjournment of the meeting, otherwise only the titles will appear in the printed volume. The Council shall have power to order the printing of any paper by abstract or title only. Whenever practicable, proofs shall be forwarded to authors for revision. If any additions or substantial alterations are made by the author of a paper after its submission to the Secretary, the same shall be distinctly indicated. Illustrations must be provided for by the authors of the papers, or by a special appropriation from the Council. Immediately on publication of

the volume, a copy shall be forwarded to every member and fellow of the Association who shall have paid the assessment for the meeting to which it relates, and it shall also be offered for sale by the Permanent Secretary at such price as may be determined by the Council. The Council shall also designate the institutions to which copies shall be distributed.

Local Committee.

Art. 32. The Local Committee shall consist of persons interested in the objects of the Association and residing at or near the place of the proposed meeting. It is expected that the Local Committee, assisted by the officers of the Association, will make all essential arrangements for the meeting, and issue a circular giving necessary particulars, at least one month before the meeting.

Library of the Association.

Art. 33. All books and pamphlets received by the Association shall be in charge of the Permanent Secretary, who shall have a list of the same printed and shall furnish a copy to any member or fellow on application. Members and fellows who have paid their assessments in full shall be allowed to call for books and pamphlets, which shall be delivered to them at their expense on their giving a receipt agreeing to make good any loss or damage, and to return the same free of expense to the Secretary at the time specified in the receipt given. All books and pamphlets in circulation must be returned at each meeting. Not more than five books, including volumes, parts of volumes, and pamphlets, shall be held at one time by any member or fellow. Any book may be withheld from circulation by order of the Council. [The Library of the Association was, by vote of the Council in 1895, placed on deposit in the Library of the University of Cincinnati, Ohio. Members can obtain the use of books by writing to the Librarian of the University Library, Cincinnati, Ohio.]

Admission Fee and Assessments.

Art. 34. The admission fee for members shall be five dollars in addition to the annual assessment. On the election of any member as a fellow an additional fee of two dollars shall be paid.

ART. 35. The annual assessment for members and fellows shall be three dollars.

ART. 36. Any member or fellow who shall pay the sum of fifty dollars to the Association, at any one time, shall become a Life Member, and as such shall be exempt from all further assessments, and shall be entitled to the Proceedings of the Association. All money thus received shall be invested as a permanent fund, the income of which, during the life of the member, shall form a part of the general fund of the Association; but, after his death, shall be used only to assist in original research, unless otherwise directed by unanimous vote of the Council.

ART. 37. All fees and assessments must be paid to the Permanent Secretary, who shall give proper receipts for the same.

ACCOUNTS.

ART. 38. The accounts of the Permanent Secretary and of the Treasurer shall be audited annually by Auditors appointed by the Council.

ALTERATIONS OF THE CONSTITUTION.

ART. 39. No part of this Constitution shall be amended or annulled, without the concurrence of three-fourths of the members and fellows present in General Session, after notice given at a General Session of a preceding meeting of the Association.

MEMBERS AND FELLOWS

OF THE

AMERICAN ASSOCIATION

FOR THE

ADVANCEMENT OF SCIENCE.

(CORRECTED TO JUNE 5, 1902.)

SURVIVING FOUNDERS.

[At the Brooklyn Meeting, 1894, a resolution was unanimously adopted by which all the surviving founders of the Association who have maintained an interest in science were made Honorary Life Members of the Association in recognition of their pioneer work in American Science.]

ABBOT, SAMUEL L., Boston, Mass.
BOYÉ, MARTIN H., Coopersburg, Pa.
GIBBS, WOLCOTT, Newport, R. I.

PATRONS.

[Persons contributing one thousand dollars or more to the Association are classed as Patrons, and are entitled to the privileges of members and to the publications. The names of Patrons are to remain permanently on the list.]

THOMPSON, MRS. ELIZABETH, Stamford, Conn. (22). (Died July 1899.)

LILLY, GEN. WILLIAM, Mauch Chunk, Pa. (28). (Died Dec. 1, 1893.)

HERRMAN, MRS. ESTHER, 59 West 56th St., New York, N. Y. (29).

MCMILLIN, EMERSON, 40 Wall St., New York, N. Y. (37).

HONORARY FELLOWS.

[See ARTICLE VI of the Constitution.]

*ROGERS, PROF. WILLIAM B., Boston, Mass. (1). 1881. (Born Dec. 7, 1804. Died May 30, 1882.) **B E**

*CHEVREUL, MICHEL EUGENE, Paris, France. (35). 1886. (Born Aug. 31, 1786. Died April 9, 1889.) **C**

*GENTH, DR. F. A., Philadelphia, Pa. (24). 1888. (Born May 17, 1820. Died Feb. 2, 1892.) **C E**

*HALL, PROF. JAMES, Albany, N. Y. (1). 1890. (Born in 1811. Died Aug. 7, 1898.)

*GOULD, DR. BENJAMIN APTHORP, Cambridge, Mass. (2). 1895. (Born Sept. 27, 1824. Died Nov. 26. 1896.) **A B**

*LEUCKART, PROF. RUDOLF. (44). 1895. (Born in Helmstedt, Braunschweig, Germany, Oct. 7, 1823. Died in Leipzig, Feb. 7, 1898.) **F**

*GIBBS, PROF. WOLCOTT, Newport, R. I. (1). 1896. **B C**

*WARINGTON, ROBERT, F. R. S., Rothamsted, Harpenden, England. (40). 1899. **C**

MEMBERS AND FELLOWS.

The names designated by an asterisk (*) are those of Fellows. (See ARTICLE IV of the Constitution.) The number in parenthesis indicates the meeting at which the Member joined the Association; the date following is the year when made a Fellow; the black letters at end of line are those of the Sections to which the Member or Fellow belongs. When the name is given in small capitals, it designates that the Member or Fellow is also a Life Member. Any Member or Fellow may become a Life Member by the payment of fifty dollars. The income of the money derived from a life membership is used for the general purposes of the Association during the life of the Member; afterwards it is to be used to aid in original research. Life Members are exempt from the annual assessment, and are entitled to the publications. The names of Life Members are printed in small capitals in the regular list of Members and Fellows.

The Constitution requires that the names of all Members two years in arrears shall be omitted from the list, but their names will be restored on payment of arrearages. Members not in arrears are entitled to the publications of the Association, including the journal *Science*.

*Abbe, Cleveland, Professor of Meteorology, Weather Bureau, U. S. Dept. Agriculture, Washington, D. C. (16). 1874. **A B**

*Abbe, Cleveland, Jr., 2017 I St., N. W., Washington, D. C. (44). 1899. **E**

*Abbe, Dr. Robert, 13 W. 50th St., New York, N. Y. (36). 1892.

Abbot, Francis Ellingwood, Ph.D., 43 Larch Road, Cambridge, Mass. (50). **I**

*ABBOT, DR. SAMUEL L., 90 Mt. Vernon St., Boston, Mass. (1). 1898.

Abbott, Charles G., Smithsonian Institution, Washington, D. C. (49). **B**

Abbott, Frank L., Professor of Physical Science, State Normal School, Greeley, Colo. (50). **B E**

Abel, John J., Professor of Pharmacology, Johns Hopkins University, Baltimore, Md. (51). **C**

*Abert, S. Thayer, Metropolitan Club, Washington, D. C. (30). 1891. **A B E**

Abraham, Abraham, Brooklyn, N. Y. (43).

Acheson, Edward Goodrich, President of the International Acheson Graphite Co., Niagara Falls, N. Y. (50). **C**

Adams, Comfort A., 13 Farrar St., Cambridge, Mass. (47).

Adams, C. C., University of Chicago, Chicago, Ill. (50). **F**

Adams, C. E., M. D., 29 West Broadway, Bangor, Me. (43). **F**

Adams, Edward Dean, 35 Wall St., New York, N. Y. (49).

Adams, Ernest Kempton, 455 Madison Ave., New York, N. Y. (50). **D E**

Adams, Frederick C., Classical High School, Providence, R. I. (50). **B C**

Adler, I., M. D., 12 E 60th St., New York, N. Y. (49).

*Adriance, John S., 105 E. 39th St., New York, N. Y. (39). 1895. **C**

Ainsworth, Herman Reeve, M. D., Addison, N. Y. (51). **I K**

Albaugh, Maurice, Secretary of the Crescent Metallic Fence Stay Co., Covington, Ohio. (51). **D**

Albrecht, Emil Poole, Secretary of The Bourse, 1523 No. 17th St., Philadelphia, Pa. (51). **A D**

Albree, Chester B., Mechanical Engineer, 14–30 Market St., Allegheny, Pa. (50). **D**

*Alden, John, Pacific Mills, Lawrence, Mass. (36). 1898.

Alderson, Victor C., Dean of the Technical College, Armour Institute of Technology, Chicago, Ill. (50). **D**

Aldis, Owen F., 230 Monadnock Block, Chicago, Ill. (41). **H**

*Aldrich, Wm. S., Director, Thomas S. Clarkson Memorial School of Technology, Potsdam, N. Y. (43). 1897. **D**

Alexander, Chas. Anderson, M. E., Johnston Harvester Co., 10 Vine St., Batavia, N. Y. (50). **D**

Alexander, Curtis, Mining Engineer, Spearfish, South Dakota. (50). **E**

Alexander, George E., Chemist and Mining Engineer, 1736 Champa St., Denver, Colo. (50). **C D**

Alexander, Harry, E. E., M. E., 18 and 20 W. 34th St., New York, N. Y. (50). **D**

Aley, Robert J., Indiana Univ., Bloomington, Ind. (49).

Alford, William V., Garrettsville, Ohio. (48). **E H**

Allan, Chas. F., Newburgh, N. Y. (50). **B E**

Allderdice, Wm. H., Lieutenant U. S. Navy, Navy Dept. Washington, D. C. (33). **D**

Alleman, Gellert, Ph. D., Instructor in Chemistry, Washington University, St. Louis, Mo. (50). **C**

Allen, C. L., Floral Park, N. Y. (49).

Allen, Frank, 315 Dryden Road, Ithaca, N. Y. (49). **B**

Allen, H. Jerome, M. D., 421 H St., N.E., Washington, D. C. (51). **K**

Allen, J. M., President of the Hartford Steam Boiler Inspection and Insurance Co., Hartford, Conn. (22). **D**

Allen, John Robins, Asst. Prof. of Mechanical Engineering, University of Michigan, Ann Arbor, Mich. (45). **B D**

Allen, Richard H., Chatham, N. J. (49).

*Allen, Dr. T. F., 3 E. 48th St., New York, N. Y. (35). 1887. **G**

Allen, Walter S., 34 S. Sixth St., New Bedford, Mass. (39). **C I**

Allison, Charles Edward, M. D., Elysburg, Pa. (51). **K**

Allison, Hendery, M. D., Manhattan State Hospital, East, P. O. Sta. U, New York, N. Y. (50). **K**

Allyn, G. W., M. D., Secretary Academy of Science and Art, 515 Penn. Ave., Pittsburg, Pa. (51). **F**

Almond, Thomas R., M. E., 83–85 Washington St., Brooklyn, N. Y. (51). **D**

*Almy, John E., Ph. D., Instructor in Physics, University of Nebraska, Lincoln, Neb. (50). 1901. **B**

Alpers, Wm. C., 45 West 31st St., New York, N. Y. (50). **I**

Alsop, E. B., 541 Wood St., Pittsburg, Pa. (50). **D**

Alspach, E. F., 455 West Sixth Ave., Columbus, O. (48). **H**

*Alvord, Maj. Henry E., U. S. Dept. Agriculture, Washington, D. C. (29). 1882. **I**

*Alwood, Prof. Wm. B., Agricultural and Mechanical College and Experiment Station, Blacksburg, Va. (39). 1891. **F**

Ames, Oakes, Assistant Director of the Botanic Garden of Harvard University, North Easton, Mass. (50). **G**

Ammons, Miss Theodosia G., Professor of Domestic Science, State Agricultural College, Fort Collins, Colo. (50). **I**

Amundson, John A., 146 Broadway, New York, N. Y. (49).

Amweg, Frederick James, Civil and Consulting Engineer, Box 537, Honolulu, H. T. (51). **D**

Anders, Howard S., M. D., 1836 Wallace St., Philadelphia, Pa. (51). **K**

Anderson, A. J. C., 127 Water St., New York, N. Y. (49).

*Anderson, Alexander P., N. Y. Botanical Garden, Bronx Park, New York, N. Y. (45). 1899. **G**

Anderson, Prof. Douglas S., Tulane Univ., New Orleans, La. (49). **B D**

Anderson, Edwin Clinton, M. D.,7 26 Market St., Chattanooga, Tenn. (51). **K**

Anderson, Frank, E. M., 255 Second East St., Salt Lake City, Utah, (50). **D E**

Anderson, Frank P., Epworth, Iowa. (46).

Anderson, J. Hartley, M. D., 4630 Fifth Ave., Pittsburg, Pa. (50). **K**

Anderson, James Thomas, Lieutenant U. S. Army, 1112 N. Cascade Ave., Colorado Springs, Colo. (51).

Anderson, Winslow, M. D., President of College of Physicians and Surgeons of San Francisco, 1025 Sutter St., San Francisco, Cal. (51). **K**

Andrews, Wm. C., Associate Editor, "Street Railway Journal," Hotel Margaret, New York, N. Y. (46).

Andrews, William Symes, care Gen'l Elec. Co., Schenectady, N. Y. (50). **D E**

Annear, John Brothers, University of Colorado, Boulder, Colo. (50). **C**

Anthony, Mrs. Emilia C., Gouverneur, N. Y. (47). G
Anthony, Richard A., 122–124 Fifth Ave., New York, N. Y. (49).
*Anthony, Prof. Wm. A., Cooper Union, New York, N. Y. (28). 1880. B
*Appleton, John Howard, Professor of Chemistry, Brown University, Providence, R. I. (50). 1901. C
Archer, George Frost, 31 Burling Slip, New York, N. Y. (50). D
Armstrong, Robert ,M. D., Boulder, Colo. (50). H K
Arnold, Bion Joseph, 4128 Prairie Ave., Chicago, Ill. (50). D
Arnold, Mrs. Francis B., 101 W. 78th St., New York, N. Y. (49).
Arnold, Jacob H., Teacher of Natural Science, Redfield College, Redfield, South Dakota. (50). I
Arnold, Ralph, Instructor in Mineralogy, Stanford University, Palo Alto, Cal. (51). E
*Arthur, J. C., Lafayette, Ind. (21). 1883. G
Asdale, William James, M. D., 5523 Ellsworth Ave., Pittsburg, Pa. (51). K
Ashe, W. Willard, Consulting Forester, Raleigh, N. C. (47).
Ashley, George Hall, Professor of Biology and Geology, College of Charleston, Charleston, S. C. (51). E F
*Ashmead, Wm. H., Department of Insects, U. S. National Museum, Washington, D. C. (40). 1892. F
Aspinwall, John, 290 Broadway, New York, N. Y. (49).
Atkins, Prof. Martin D., Agricultural College, Mich. (48). B
*Atkinson, Edward, 31 Milk St., Boston, Mass. (29). 1881. D I
*Atkinson, George F., Cornell University, Ithaca, N. Y. (39). 1892. G
Atkinson, John B., Earlington, Ky. (26). D
*Atwater, Prof. W. O., Wesleyan Univ., Middletown, Conn. (29). 1882. C
*Auchincloss, Wm. S., 45 W. 20th St., New York, N. Y. (29). 1886. A D
*Austen, Prof. Peter T., 80 Broad St., New York, N. Y. (44). 1896. C
Austin, Dr. George M., Wilmington, Ohio. (48). E F
*Avery, Elroy M., Ph. D., LL.D., 657 Woodland Hills Ave., Cleveland, Ohio. (37). 1889. B
AVERY, SAMUEL P., 4 E. 38th St., New York, N. Y. (36).
Ayer, Edward Everett, 915 Old Colony Bldg., Chicago, Ill. (37). H
Ayer, James I., 5 Main St. Park, Malden, Mass. (50). D
*Ayers, Howard, President Univ. of Cincinnati, Cincinnati, Ohio. (49). 1901. F
Aylesworth, Barton O., President of the State Agricultural College, Fort Collins, Colo. (50). I
*Ayres, Prof. Brown, Tulane University, New Orleans, La. (31). 1885. B

Ayres, Horace B., U. S. Geological Survey, Washington, D. C. (40).

Babcock, Stephen E., Civil and Hydraulic Engineer, Little Falls, N. Y. (51). **D**

*Babcock, Prof. S. Moulton, 432 Lake St., Madison, Wis. (33). 1885. **C**

Baerecke, John F., M. D., Professor of Biology, Stetson University, DeLand, Fla. (50). **F K**

Bagby, J. H. C., Dept. Physical Science, Hampden-Sidney College, Hampden-Sidney, Va. (50). **B**

Bagg, Rufus Mather, Jr., Ph. D., High School, Brockton, Mass. (49). **E**

BAGGALEY, RALPH, Pittsburg, Pa. (50). **D**

*Bailey, E. H. S., Professor of Chemistry, Univ. of Kansas, Lawrence, Kan. (25). 1889. **C E**

Bailey, Marshall Henry, M. D., 47 Brattle St., Cambridge, Mass. (50). **F K**

*Bailey, Solon Irving, Associate Prof. Astronomy, Harvard Observatory, Cambridge, Mass. (50). 1901. **A**

Bain, Samuel M., Professor of Botany, University of Tennessee, Knoxville, Tenn.. (50). **G**

Baker, A. G., Springfield, Mass. (44).

*Baker, Frank, M. D., 1728 Columbia Road, Washington, D. C. (31). 1886. **F H K**

Baker, Frederic, 815 Fifth Ave., New York, N. Y. (49).

Baker, Hugh P., Bureau of Forestry, U. S. Dept. Agriculture, Washington, D. C. (51). **G**

Baker, James H., President of the University of Colorado, Boulder, Colo. (50). **I**

*Baker, Marcus, U. S. Geol. Survey, Washington, D. C. (30). 1882. **A**

Balch, Edwin Swift, 1412 Spruce St., Philadelphia, Pa. (51). **E H**

Balch, Francis Noyes, Prince St., Jamaica Plain, Mass. (50). **F**

Balch, Samuel W., 41 Wall St., New York, N. Y. (43).

Baldwin, Mrs. G. H., 3 Madison Ave., Detroit, Mich. (34). **H**

Baldwin, Herbert B., 9–11 Franklin St., Newark, N. J. (43).

*Baldwin, Prof. J. Mark, Princeton, N. J. (46). 1898. **H**

*BALDWIN, HON. SIMEON E., Associate Judge of Supreme Court of Errors, New Haven, Conn. (50). 1901. **I**

*BALDWIN, S. PRENTISS, 736 Prospect St., Cleveland, Ohio. (47). 1900. **E**

Ball, Carleton R., U. S. Dept. Agriculture, Washington, D. C. (49). **G**

Ball, Elmer Darwin, Assistant Professor of Zoology, Agricultural College, Fort Collins, Colo. (50). **F**

Ball, Miss Helen Augusta, 43 Laurel St., Worcester, Mass. (50). **F**

Ballard, C. A., Curator of Museum, State Normal School, Moorhead, Minn. (51).

*Ballard, Harlan H., 50 South St., Pittsfield, Mass. (31). 1891. **E F**

Balliet, Thomas M., Supt. of Schools, Springfield, Mass. (48). **H I**

Bancroft, Alonzo C., Elma, New York. (41).

Bancroft, Frank Watts, Ph. D., Instructor in Physiology, University of California, Berkeley, Cal. (50). **F K**

Bancroft, John Sellers, M. E., 3310 Arch St., Philadelphia, Pa. (51). **D**

*Bancroft, Wilder Dwight, Professor of Chemistry, Cornell University, Ithaca, N. Y. (50). 1901. **C**

BANGS, LEMUEL BOLTON, M. D., 127 E. 34th St., New York, N. Y. (36).

*Bangs, Outram, 240 Beacon St., Boston, Mass. (47). 1900. **F**

Banks, William C., Electrician, Gordon Battery Co., 439 E. 144th St., New York, N. Y. (50). **D**

Barber, Amzi L., 7 E. 42d St., New York, N. Y. (49).

*Barbour, Prof. Erwin Hinckley, Univ. of Nebraska, Lincoln, Neb. (45). 1898. **E**

*Bardeen, Charles Russell, Anatomical Laboratory, Wolfe and Monument Sts., Baltimore, Md. (50). 1901. **F K**

BARGE, B. F., Mauch Chunk, Pa. (33).

Barkan, Adolph, M. D., LL.D., 14 Grant Ave., San Francisco, Cal. (51). **K**

*BARKER, PROF. G. F., 3909 Locust St., Philadelphia, Pa. (13). 1875. **B C**

Barker, Mrs. Martha M., 42 Eleventh St., Lowell, Mass. (31). **E H**

*Barnard, Edward E., Yerkes Observatory, Williams Bay, Wis. (26). 1883. **A**

Barnes, Albert, Clemson College, S. C. (49). **D**

*Barnes, Charles Reid, Ph. D., Univ. of Chicago, Chicago, Ill. (33). 1885. **G**

Barnes, Edward W., Box 446, New York, N. Y. (49).

Barnes, Lemuel Call, D. D., 310 Oakland Ave., Pittsburg, Pa. (51). **F**

Barnett, Robert Crary, care Vera Cruz and Pacific Ry., Orizaba, Mexico. (51). **D**

Barnhart, Arthur M., 185 Monroe St., Chicago, Ill. (42).

Barnhart, John H., M. D., Tarrytown, N. Y. (49). **G**

Barnsley, George Thomas, C. E., 64 Water St., Pittsburg, Pa. (51). **D**

*Barnum, Miss Charlotte C., Ph. D., U. S. Coast and Geodetic Survey, Washington, D. C. (36). 1896. **A**

Barr, Charles Elisha, Professor of Biology, Albion College, Albion, Mich. (50). **F**

Barr, John Henry, Professor of Machine Design, Cornell University, Ithaca, N. Y. (51). **D**

Barrell, Joseph, Asst. Professor of Geology, Lehigh University, South Bethlehem, Pa. (51). **E**

Barrie, Dr. George, 1629 Fourteenth St., N.W., Washington, D.C. (49). **H I**

Barringer, Daniel Moreau, Geologist and Mining Engineer, 460 Bullitt Building, Philadelphia, Pa. (50). **D E**

Barrows, Franklin W., M. D., 45 Park St., Buffalo, N. Y. (47). **F**

*Barrows, Walter B., Agricultural College, Mich. (40). 1897. **F**

*Bartlett, Prof. Edwin J., Dartmouth College, Hanover, N. H. (28). 1883. **C**

Bartlett, Francis, 40 State St., Boston, Mass. (50). **I**

*Bartlett, John R., Captain, U. S. N., 1622 21st St., N.W., Washington, D. C. (30). 1882. **B E**

*Bartley, Elias H., M. D., 21 Lafayette Ave., Brooklyn, N. Y. (33). 1894. **C**

*Barton, G. E., 212 North 3d St., Millville, N. J. (46). 1898. **C**

*Barton, George Hunt, Dept. of Geology, Mass. Inst. Tech., Boston, Mass. (47). 1900. **E**

Barton, Philip Price, E. E., Sup't Niagara Falls Power Co., 127 Buffalo Ave., Niagara Falls, N. Y. (50). **D E**

*Barton, Samuel M., Ph. D., The Univ. of the South, Sewanee, Tenn. (43). 1899. **A**

Bartow, Edward, Ph. D., Kansas State University, Lawrence, Kan. (47). **C**

*Barus, Carl, Ph. D., Wilson Hall, Brown Univ., Providence, R. I. (33). 1887. **B**

Barwell, John William, Waukegan, Ill. (47).

*Bascom, Miss Florence, Bryn Mawr College, Bryn Mawr, Pa. (42). 1897. **E**

Bashore, Dr. Harvey B., West Fairview, Pa. (46). **E**

*Baskerville, Charles, Univ. of North Carolina, Chapel Hill, N. C. (41). 1894. **C E**

Baskett, James Newton, Mexico, Mo. (50). **F I**

Bassett, Carroll Phillips, C. E., Ph. D., Civil and Consulting Engineer, Summit, N. J. (51). **D**

Bates, Charles B., M. D., 27 Everett St., Cambridge, Mass. (51). **C K**

Bates, Rev. John Mallery, Callaway, Neb. (51). **G I**

Bauder, Arthur Russell, Instructor in Physics, Boardman High School, New Haven, Conn. (50). **B**

*Bauer, Louis A., Ph. D., U. S. C. and G. Survey, Washington, D. C. (40). 1892. **A**

*Bausch, Edw., P. O. Drawer 1033, Rochester, N. Y. (26). 1883. **A B C F**

Bausch, Henry, P. O. Drawer 1033, Rochester, N. Y. (41).

Baxter, James Phinney, President, Maine Historical Society, Portland, Maine. (50). **H I**

Beach, Miss Alice M., 1015 W. Illinois St., Urbana, Ill. (50). F
Beach, Charles Coffing, M. D., 54 Woodland St., Hartford, Conn. (50). K
Beach, Harry Wilber, Manufacturer of Wood-working Machinery, Montrose, Pa. (50). D
Beach, Henry Harris Aubrey, M. D., 28 Commonwealth Ave., Boston, Mass. (50). F K
*Beach, Spencer Ambrose, N. Y. Exper. Station, Geneva, N. Y. (41). 1900. G
Beahan, Willard, Division Engineer, C. & N. W. Ry., 220 W. 6th St., Winona, Minn. (51). D
*Beal, Wm. James, Ph. D., Professor of Botany, Agricultural College, Mich. (17). 1880. G
*Beardsley, Arthur E., Professor of Biology, Colorado State Normal School, Greeley, Colo. (50). 1901. F
Beates, Henry, Jr., M. D., President of State Board of Medical Examiners, 1504 Walnut St., Philadelphia, Pa. (51). K
Becher, Franklin A., 234 Oneida St., Milwaukee, Wis. (41). A I
Beck, Carl, M. D., Visiting Surgeon, St. Mark's Hospital, 37 E. 31st St., New York, N. Y. (51). K
*Becker, Dr. Geo. F., U. S. Geol. Survey, Washington, D. C. (36). 1890. E
Beckwith, Miss Florence, 394 Alexander St., Rochester, N. Y. (45). G
*Bedell, Frederick, Ph. D., Cornell Univ., Ithaca, N. Y. (41). 1894. A B
Beede, Joshua William, Indiana University, Bloomington, Ind. (50). E
Beekman, Gerard, 47 Cedar St., New York, N. Y. (49).
Beers, M. H., 410 Broadway, New York, N. Y. (50). I
Behrend, Bernhard Arthur, C. E., E. E., Station H. Cincinnati, Ohio. (50). D E
*Bell, Alex. Graham, 1331 Conn. Ave., N.W., Washington, D. C. (26). 1879. B H I
*Bell, Alex. Melville, 1525 35th St., Washington, D. C. (31). 1885. H
Bell, C. M., M. D., 320 Fifth Ave., New York, N. Y. (36).
Bell, George, Mineralogist, 200 S. Washington Ave., Denver, Colo. (50). E G
Bell, Guido, M. D., 431 E. Ohio St., Indianapolis, Ind. (51). K
*Bell, Robert, M. D., LL.D., F. R. S., Geol. Survey, Ottawa, Can. (38). 1889. E F
Bellows, Horace M., M. D., Huntingdon Valley, Pa. (51). K
Belmont, August, 23 Nassau St., New York, N. Y. (50). I
*Beman, Wooster W., 813 E. Kingsley St., Ann Arbor, Mich. (34). 1886. A

Benedict, James H., 14 E. 70th St., New York, N. Y. (49).
*BENJAMIN, MARCUS, U. S. National Museum, Washington, D. C. (27). 1887. **C I**
*Benjamin, Rev. Raphael, Hotel Premier, E. 72nd St., New York, N. Y. (34). 1887. **E F G H**
*Benneson, Miss Cora Agnes, A. M., LL. B., 4 Mason St., Cambridge, Mass. (47). 1899. **H I**
Bennett, Charles W., Coldwater, Mich. (50). **E**
Bennett, Henry C., 4th Flat, 1692 Broadway, New York, N. Y. (43).
Bennett, Rev. N. E., Wilmington, Ohio. (47). **A**
Bennett, William Z., Ph. D., Director of Chemical Laboratory, Univ. of Wooster, Wooster, Ohio. (48). **C**
Benson, Frank Sherman, 214 Columbia Heights, Brooklyn, N. Y. (49).
Bentley, William B., Ohio University, Athens, Ohio. (51). **C**
Bentley, Wilson A., Nashville, Vt. (48).
Bentley, Wray Annin, Instructor in Metallurgy, School of Applied Science, Columbia University, New York, N. Y. (50). **E**
Benton, John Robert, Ph. D., Asst. in Physics, Cornell University, Ithaca, N. Y. (51). **B**
Benton, Josiah H., Jr., Ames Building, Boston, Mass. (50). **I**
Bergey, David H., S. E. cor. 34th and Locust Sts. Philadelphia, Pa. (48).
*Bergström, John Andrew, Ph. D., Associate Professor of Psychology and Pedagogy, Indiana University, Bloomington, Ind. (50). 1901. **I**
Berkeley, Wm. N., Ph. D., Box 65, San Juan, Porto Rico. (49). **C**
Berkey, Charles Peter, Ph. D., Instructor in Mineralogy, University of Minnesota, Minneapolis, Minn. (50). **E**
Bermann, I., M. D., 1010 I St., N.W., Washington, D. C. (49). **H**
Bernays, Augustus Charles, M. D., 3623 Laclede Ave., St. Louis, Mo., (50). **F K**
Bernheimer, Charles L., 43 E. 63rd St., New York, N. Y. (49).
Berry, Daniel, M. D., Carmi, Ill. (41). **B C E**
Berry, Edgar H., Draftsman in charge Equipment Department, Navy Yard, Brooklyn, N. Y. (50). **D**
Berry, Edward W., News Building, Passaic, N. J. (50). **I**
Berry, John Wilson, C. E., Pittston, Pa. (47).
*Bessey, Charles Edwin, Ph. D., LL.D., Univ. of Nebraska, Lincoln, Neb. (21). 1880. **G**
*Bessey, Ernst A., U. S. Dep't Agriculture, Washington, D. C. (49). 1901. **G**
Bessey, J. Mortimer, M. D., 1814 Adams St., Toledo, Ohio. (51). **K**
Bethea, Solomon Hix, U. S. Attorney, Chicago Club, Chicago, Ill. (50). **I**

Bevier, Miss Isabel, Univ. of Illinois, Urbana, Ill. (46). **C**

*Beyer, Prof. Samuel W., Iowa Agricultural College, Ames, Iowa. (47). 1900. **E**

*Bickmore, Prof. Albert S., Amer. Mus. Nat. History, Central Park, New York, N. Y. (17). 1880. **H**

Biddle, James G., 1024 Stephen Girard Building, Philadelphia, Pa. (33).

Bien, Julius, 140 Sixth Ave., New York, N. Y. (34). **E H**

Bierly, Prof. H. E., State Seminary, Tallahassee, Fla. (49). **H**

Bierwirth, Juilus C., M. D., 137 Montague St., Brooklyn, N. Y. (51). **K**

*Bigelow, Prof. Frank H., U. S. Weather Bureau, Washington, D. C. (36). 1888. **A**

Bigelow, Maurice Alpheus, Ph. D., Instructor in Biology, Teachers' College, Columbia Univ., New York, N. Y. (51). **F**

Bigelow, Samuel Lawrence, Ph. D., Asst. Professor of General Chemistry, University of Michigan, Ann Arbor, Mich. (51). **C**

Biggar, Hamilton F., M. D., 176 Euclid Ave., Cleveland, Ohio. (40). **B F**

Biggs, Charles, 13 Astor Place, New York, N. Y. (50). **I**

Bigney, Andrew J., Professor of Biology and Geology, Moores Hill College, Moores Hill Ind. (50). **E F**

Billings, Miss E., 279 Madison Ave., New York, N. Y. (50). **I**

BISHOP, HEBER R., Mills Building, New York, N. Y. (36).

Bishop, L. B., M. D., 356 Orange St., New Haven, Conn. (50). **I**

Bissell, Leslie Dayton, Ph. D., Hotchkiss School, Lakeville, Conn. (50). **B**

*BIXBY, MAJOR W. H., Corps of Engineers, U. S. A., U. S. Engineer Office, Jones Bldg., Detroit, Mich. (34). 1892. **D**

Black, Newton Henry, 10 Westerly St., Roxbury, Mass. (50). **B**

Blackall, Clarence Howard, Architect, 1 Somerset St., Boston, Mass. (50). **D**

Blackburn, Joseph E., State Dairy and Food Commissioner, Columbus, Ohio, (50). **F I**

Blackmar, Frank Wilson, Professor of Sociology and Economics, University of Kansas, Lawrence, Kan. (50). **H I**

Blackmore, Henry S., 206 S. 9th Ave., Mount Vernon, N. Y. (49).

*Blair, Andrew Alexander, 406 Locust St., Philadelphia, Pa. (44). 1896. **C**

*Blake, Clarence J., M. D., 226 Marlborough St., Boston, Mass. (24). 1877. **B F**

*Blake, Edwin Mortimer, 1910 Addison St., Berkeley, Cal. (43). 1901. **A**

*Blake, Francis, Auburndale, Mass. (23). 1874. **A B**

Blake, Fred. C., Boulder, Colo. (50). **C**

Blake, John Bapst, M. D., 302 Beacon St., Boston, Mass. (50). **F K**

Blake, Joseph A., M. D., 601 Madison Ave., New York, N. Y. (50). **K**

Blakeman, Mrs. Birdseye, 9 E. 44th St., New York, N. Y. (49).

Blakeslee, Olin Safford, Magnolia, Colo. (50). **B D E**

Bland, John Carlisle, Engineer of Bridges, Penna. Lines West of Pittsburg, 1003 Penn Ave., Pittsburg, Pa. (51). **D**

Blankinship, Joseph William, Ph. D., Professor of Botany, Montana State College, Bozeman, Montana. (51). **G**

Blasdale, Walter Charles, Ph. D., Instructor in Chemistry, University of California, Berkeley, Cal. (50). **C**

Blauvelt, Harrington, Mining Engineer, Prescott, Arizona, (51). **D E**

*Bleile, Albert M., M. D., State University, Columbus, Ohio. (37). 1896. **F**

BLISH, W. G., Niles, Mich. (33). **B D**

Bliss, Charles B., Ph. D., The Elmer Gates Laboratory of Psychology and Psychurgy, Chevy Chase, Md. (49). **H I**

Bliss, Hon. Cornelius N., 117 Duane St., New York, N. Y. (49).

Bloodgood, John H., 6 W. 40th St., New York, N. Y. (49).

BLOUNT, HENRY FITCH, "The Oaks," Washington, D. C. (32). **B I**

Boas, Emil L., 37 Broadway, New York, N. Y. (50). **I**

*Boas, Dr. Franz, Am. Mus. Nat. History, Central Park, New York, N. Y. (36). 1888. **H I**

*Bodine, Prof. Donaldson, Wabash College, Crawfordsville, Ind. (45). 1899. **E F**

*Bogert, Marston Taylor, Havenmeyer Hall, Columbia Univ., New York, N. Y. (47). 1900. **C**

Boggs, Lemuel Stearns, care Sargent & Lundy, 1000 Isabella Bld'g, Chicago, Ill. (50). **D**

Boies, Henry Martyn, President Moosic Powder Co., 530 Clay Ave., Scranton, Pa. (50). **C**

Bolles, Newton Alden, 1457–59 Ogden St., Denver, Colo. (50). **C**

*Bolley, Henry L., Agricultural College, North Dakota. (39). 1892. **G**

*BOLTON, DR. H. CARRINGTON, Cosmos Club, Washington, D. C. (17). 1875. **C**

*Bolton, Thaddeus L., Ph. D., Dept. Philosophy, University of Nebraska, Lincoln, Neb. (50). 1901. **H I**

Bond, Fred, State Engineer, Cheyenne, Wyoming. (50). **D**

*Bond, Geo. M., The Pratt & Whitney Co., Hartford, Conn. (33). 1885. **D**

Bond, R. I., M. D., Hartshorne, Ind. Ter. (50). **K**

*Bookman, Samuel, Ph. D., 9 E. 62nd St., New York, N. Y. (47). 1900. **C**

Boon, John Daniel, Professor of Physics, Chemistry and Geology, John Tarleton College, Stephenville, Texas. (50). **B C E**

Booraem, J. V. V., 204 Lincoln Place, Brooklyn, N. Y. (36).
Booth, Edward, Instructor in Chemistry, Univ. of California, Berkeley, Cal. (50). **C**
*Booth, Miss Mary A., 60 Dartmouth St., Springfield, Mass. (34). 1894. **F G I**
Bossi, Arnold L., Ph. D., Chemist and Colorist, Manchester Mills, Manchester, N. H. (50). **C**
Boston, L. Napoleon, M. D., 1531 S. Broad St., Philadelphia, Pa. (51). **K**
Boucek, Anthony J., M. D., 624 Chestnut St., Allegheny, Pa. (51). **K**
*Bouscaren, Louis Frederic Gustav, Chief Enigneer, Water Works Commission, City Hall, Cincinnati, Ohio. (50). 1901. **D**
*Bouton, Charles Leonard, Instructor in Mathematics, Harvard University, Cambridge, Mass. (50). 1901. **A.**
Boutwell, John Mason, U. S. Geol. Survey, Washington, D. C. (46). **E**
*Bowditch, Charles P., 28 State St., Boston, Mass. (43). 1897. **H**
Bowditch, Miss Charlotte, Pond St., Jamaica Plain, Mass. (50). **I**
*Bowditch, Prof. H. P., Jamaica Plain, Mass. (28). 1880. **B F H**
Bowker, R. R., 28 Elm St., New York, N. Y. (43). **B**
Bowlus, E. Lingan, Professor of Biology, Mt. Union College, Alliance, Ohio. (50). **F**
Bowman, Joseph H., Resident Engineer, Vera Cruz and Pacific Ry., Apartado 21, Cordoba, Mexico. (50). **D**
Bownocker, Prof. J. A., Ohio State University, Columbus, Ohio. (48). **E**
*Bowser, Prof. E. A., Rutgers College, New Brunswick, N. J. (28). 1881.
*Boyd, James E., Ohio State Univ., Columbus, Ohio. (46). 1899. **B**
*Boye, Martin H., M. D., Coopersburg, Pa. (1). 1896. **C**
*Brace, Prof. D. B., Univ. of Nebraska, Lincoln, Neb. (48). 1900.
Brackenridge, George W., San Antonio, Texas, (41). **I**
Brackett, Byron B., Ph. D., Rutgers College, New Brunswick, N. J. (46). **B**
*Brackett, Prof. C. F., Princeton University, Princeton, N. J. (19). 1875. **B**
Brackett, Frank Parkhurst, Professor of Mathematics, Pomona College, Claremont, Cal. (50). **A**
*Brackett, Richard N., Clemson College, S. C. (37). 1891. **C E**
Bradford, Prof. Joseph N., Ohio State Univ., Columbus, Ohio. (48).
*Bradford, Royal B., Commander, U. S. N., Navy Dept., Washington, D. C. (31). 1891. **B D**
Bradley, Arthur C., Newport, N. H. (43).
Bradley, Charles S., 44 Broad St., New York, N. Y. (40).
Bradley, Charles Whiting, 1064 Ellicott Square, Buffalo, N. Y. (51). **D**

BRADLEY, MILTON, Springfield, Mass. (44). **B**
BRADLEY, M. J., 373 Fulton St., Brooklyn, N. Y. (43).
Bradley, Walter Parke, Ph. D., Professor of Chemistry, Wesleyan University, Middletown, Conn. (50). **C**
Bramwell, Geo. W., 335 Broadway, New York, N. Y. (43). **D**
*Branner, Prof. John C., Stanford University, Cal. (34). 1886. **E F**
Brasefield, Stanley E., Instructor in Mathematics, Lafayette College, Easton, Pa. (50). **A**
*Brashear, John A., Allegheny, Pa. (33). 1885. **A B D**
Brassill, Miss Sarah Ellen, South Weymouth, Mass. (47). **F G**
Braunnagel, Jules L. A., M. D., P. O. Box 925, San Antonio, Texas. (50). **F**
*Bray, William L., Professor of Botany, Univ. of Texas, Austin, Texas. (49). 1901. **G**
Brayton, Sarah H., M. D., The Hereford, Evanston, Ill. (33).
Brett, George P., Darien, Conn. (49).
Brewer, Charles Edward, Professor of Chemistry, Wake Forest College, Wake Forest, N. C. (50). **C**
*Brewer, Prof. Wm. H., 418 Orange St., New Haven, Conn. (20). 1875. **E F I**
Brewster, Frank H., M. E., Birmingham Iron Foundry, P. O. Box 418, Derby, Conn. (51). **D**
Brice, Judge Albert G., 901 Hennen Bldg., New Orleans, La. (32). **H**
Bridge, Norman, M. D., 100 Grand Ave., Pasadena, Cal. (51). **K**
Briggs, Edward Cornelius, Harvard Medical School, Boston, Mass. (50). **F K**
*Briggs, Lyman J., U. S. Dept. Agriculture, Washington, D. C. (48). 1901. **B**
Briggs, Wallace Alvin, M. D., 1300 I St., Sacramento, Cal. (51). **K**
*Brigham, Albert Perry, Professor of Geology, Colgate Univ., Hamilton, N. Y. (41). 1900. **E**
Brill, George M., Consulting Engineer, 1134 Marquette Building, Chicago, Ill. (51). **D**
Bristol, John I. D., 1 Madison Ave., New York, N. Y. (49).
*Bristol, Wm. H., Stevens Institute, Hoboken, N. J. (36). 1894. **A B D**
*Britton, N. L., Ph. D., N. Y. Botanical Garden, Bronx Park, New York, N. Y. (29). 1882. **E G**
Britton, Wiley, Special Pension Examiner, Springfield, Mo. (40). **F**
Brodie, Paul Thomas, Professor of Mathematics, Clemson College, Clemson College, S. C. (50). **A**
Bronson, Dr. E. B., 123 W. 34th St., New York, N. Y. (49).
Brooks, Albert A., High School, Kansas City, Kan. (50). **F G**
Brooks, Rev. Earle Amos, 161 Laidley St., Charleston, W. Va. (50). **F**

Brooks, Morgan, Professor of Electrical Engineering, Univ. of Illinois, Urbana, Ill. (50). **D**

Brooks, Prof. Wm. P., Amherst, Mass. (38). **C F**

*Brooks, Wm. R., D. Sc., Director Smith Observatory, Geneva, N. Y. (35). 1886. **A B D G**

Brown, Amos Peaslee, Ph. D., Assistant Professor of Geology and Mineralogy, Univ. of Pennsylvania, Philadelphia, Pa. (50). **E**

Brown, Arthur Erwin, Secy. Zoological Society of Philadelphia, 1208 Locust St., Philadelphia, Pa. (51). **F**

Brown, Elisha Rhodes, President Stafford Savings and National Banks, 50 Silver St., Dover, N. H. (50). **I**

Brown, George S., M. D., 2220 1st Ave. Birmingham, Ala. (51). **K**

Brown, Glenn V., Bradford, Pa. (51). **B C E**

Brown, Harold W., Lehigh Univ., So. Bethlehem, Pa. (48). **B C**

BROWN, JOSEPH STANFORD, 241 S. 5th St., Reading Pa. (50). **D**

Brown, Newton H., Delaware College, Newark, Delaware. (48). **B D**

Brown, Philip King, M. D., 1303 Van Ness Ave., San Francisco, Cal. (51). **K**

*Brown, Robert, Yale University Observatory, New Haven, Conn. (11). 1874. **A**

*Brown, Mrs. Robert, Observatory Place, New Haven, Conn. (17). 1874.

Brown, Robert Marshall, 68 Kirkland St., Cambridge, Mass. (48).

Brown, Samuel B., Morgantown, W. Va. (40). **E**

Brown, Stewardson, Germantown, Pa. (50). **I**

Brown, S. J., U. S. Naval Academy, Annapolis, Md. (49). **A**

Brown, W. L., 42 West 72d St., New York, N. Y. (50). **I**

Brownell, Silas B., 71 Wall St., New York, N. Y. (36).

Browning, Charles Clifton, M. D., Highland, Cal. (51). **K**

Browning, Philip Embury, Kent Chemical Laboratory, Yale University, New Haven, Conn. (46). **C**

Bruggerhof, F. W., 36 Cortlandt St., New York, N. Y. (49).

*Brühl, Gustav, cor. John and Hopkins Sts., Cincinnati, Ohio. (28). 1886. **H**

Brundage, Albert H., M. D., 1153 Gates Ave., Brooklyn, N. Y. (43). **F G H**

Bruner, Henry Lane, Ph. D., Professor of Biology, Butler College, Indianapolis, Ind. (50). **F**

*Bruner, Lawrence, Professor of Entomology, Univ. of Nebraska, Lincoln, Neb. (50). 1901. **F**

BRUNTON, DAVID WILLIAM, Mining Engineer, 865 Grant Ave., Denver, Colo. (50). **D E**

*Brush, Charles F., 1003 Euclid Ave., Cleveland, Ohio. (35). 1886. **B**

*BRUSH, PROF. GEORGE J., Yale Univ., New Haven, Conn. (4). 1874. **C E**

*Bryan, Prof. William L., Indiana Univ., Bloomington, Ind. (49). 1900. H

Bryant, Miss D. L., 218 Ashe St., Greensboro, N. C. (42.) E

Bryant, Henry G., 2013 Walnut St., Philadelphia, Pa. (51). E

Bryson, Andrew, C. E., Brylgon Foundry, Reading., Pa. (51). D

Buchanan, James Isaac, Vice-President Pittsburg Trust Co., 6108 Walnut St., Pittsburg, Pa. (51). I

Buchholz, Carl Waldemar, Chief Engineer, Erie R.R. Co., 21 Cortlandt St., New York, N. Y. (51). D E.

*Buchner, Edward Franklin, Clark University, Worcester, Mass. (49). 1901. H

*Buckhout, W. A., State College, Pa. (20). 1881. F

Buckingham, Charles L., 195 Broadway, New York, N. Y. (28).

Buffum, Burt C., Professor of Agriculture, Agricultura College, Fort Collins, Colo. (42). G

Buist, John Robinson, M. D., City Board of Health, Nashville, Tenn. (50). K

*Bull, Prof. Storm, University of Wisconsin, Madison, Wis. (44). 1897. D

Bullard, Warren Gardner, Ph. D., Associate Professor of Mathematics, Syracuse University, Syracuse, N. Y. (50). A

Bullene, Mrs. Emma F. Jay, 1431 Court Place, Denver, Colo. (50). H

*Bumpus, H. C., Am. Mus. Nat. Hist., New York, N. Y. (49). 1900.

Bunker, Henry A., M. D., 158 Sixth Ave., Brooklyn, N. Y. (50). I

Bunn, J. F., Attorney at Law, Tiffin, Ohio, (51). B

*Burbank, Luther, Santa Rosa, Cal. (50). 1901. G

Burbidge, Frederick, 510 Empire State Building, Spokane, Wash. (50). D E

Burdell, W. J., M. D., Lugoff, S. C., (51). K

*Burgess, Edward S., 11 W. 88th St., New York, N. Y. (47). 1901. G

*Burgess, Dr. Thomas J. W., Medical Supt. Protestant Hospital for the Insane, Montreal, Can. (38). 1889. G

Burgwyn, Collinson Pierrepont Edwards, Civil and Consulting Engineer, 819 Main St., Richmond, Va. (51). D

Burke, M. D., C. E., 404 Pike Bldg., Cincinnati, Ohio. (50). A B C D E

Burke, Robert E., Instructor in Chemistry, Mechanic Arts High School, Boston, Mass. (50). C

Burnham, Edward J., Manchester, N. H. (47). F

Burnham, George, Jr., C. E., Burnham, Williams & Co., Baldwin Locomotive Works, 214 N. 34th St. Philadelphia, Pa. (51). D

*Burr, Prof. William H., Columbia University, New York, N. Y. (31). 1883.

Burrell, Herbert Leslie, M. D., 22 Newbury St., Boston, Mass. (51). K

Burroughs, Paul R., 1160 27th St., Des Moines, Iowa. (50). **C**

*Burt, Edward Angus, Ph. D., Professor of Natural History, Middlebury College, Middlebury, Vt. (50). 1901. **G**

Burton, Prof. Alfred E., Mass. Inst. Technology, Boston, Mass. (40). **E**

Burton, Standish Barry, Civil and Mining Engineer, Saltillo, Coahuila, Mexico. (51). **D**

Busch, Frederick Carl, M. D., 145 Allen St., Buffalo, N. Y. (49).

Bush-Brown, Henry Kirke, Sculptor, Newburgh, N. Y. (50). **E I**

Bush, John C. F., M. D., Wahoo, Neb. (51). **K**

*Butler, Amos W., Secretary Board of State Charities, Indianapolis, Ind. (30). 1885. **F H**

Butler, Frank Edward, President of Grayson College, Whitewright, Texas. (50). **I**

Butler, Matthew Joseph, Civil Engineer, Charlottetown, Prince Edward Island, Canada. (51). **D**

Butterfield, Arthur Dexter, Assistant Professor of Mathematics, University of Vermont, Burlington, Vt. (50). **A D**

Butterworth, Irvin, Denver Gas and Electric Co., Denver, Colo. (50). **B**

Butts, Edward Pontany, C. E., Chief Engineer, Am. Writing Paper Co., Holyoke, Mass. (51). **D**

Byrnes, Owen, Mining Engineer, P. O. Box 131, Marysville, Montana. (51). **D E**

Cabot, Samuel, Manufacturing Chemist, 70 Kilby St., Boston, Mass. (50). **C**

Cady, Walter G., Ph. D., 127 Power St., Providence, R. I. (49). **B**

*Cain, William, Professor of Mathematics, University of North Carolina, Chapel Hill, N. C. (50). 1901. **A D**

*Cajori, Florian, Professor of Mathematics, Colorado College, Colorado Springs, Colo. (50). 1901. **A**

Calder, George, 105 East 22d St., New York, N. Y. (50).

*Caldwell, Prof. Francis C., Ohio State University, Columbus, Ohio. (46). 1898. **B D**

*Caldwell, Prof. George C., Cornell University, Ithaca, N. Y. (23) 1875. **C**

Caldwell, Prof. Otis W., State Normal School, Charleston, Ill. (49). **G**

*Calkins, Gary N., Columbia University, New York, N. Y. (49). 1901. **F**

Calkins, Marshall, M. D., 14 Maple St., Springfield, Mass. (29).

Calvert, Philip P., Ph. D., Instructor in Zoology, Biological Hall, University of Pennsylvania, Philadelphia, Pa. (50). **F**

Calvert, Prof. Sidney, Univ. of Missouri, Columbia, Mo. (47). **C**

*Calvin, Prof. Samuel, Dir. Iowa Geol. Surv., Iowa City, Iowa. (37). 1889. **E F**

Came, Virgil M., 315 Quincy Building, Denver, Colo. (50). **E**

*Cameron, Frank K., Ph. D., Chemist, Bureau of Soils, U. S. Dept. Agriculture, Washington, D. C. (49). 1901. **C**

Cammann, Hermann H., 43 W. 38th St., New York, N. Y. (49).

*Campbell, Douglas H., Professor of Botany, Stanford University, at Cal. (34). 1888. **G**

Campbell, Leslie Lyle, Ph. D., Westminster College, Fulton, Mo. (48).

*Campbell, William Wallace, Director of Lick Observatory, Mt. Hamilton, Cal. (50). 1901. **A**

*Canby, William M., 1101 Delaware Avenue, Wilmington, Del. (17). 1878. **G**

*Cannon, George Lyman, Instructor in Geology, Denver High School (No. 1), Denver, Colo. (39). 1901. **E**

Card, Fred. W., Kingston, R. I. (45). **G**

Carey, Everett P., Redwood City, Cal. (50). **B C**

Cargill, Geo. W., Attorney at Law, Charleston, W. Va. (51). **B D F G**

*Carhart, Prof. Henry S., Univ. of Michigan, Ann Arbor, Mich. (29). 1881. **B**

*Carleton, M. A., U. S. Dept. Agriculture, Washington, D. C. (42). 1894. **G**

Carnaghan, Edwin Dixon, Mechanical Engineer, Durango, Do, Mexico. (50). **D**

Carnahan, Charles T., Mining Engineer, Equitable Building, Denver, Colo. (50). **D E**

Carnegie, Thomas Morrison, Trustee of Carnegie Institute, Dungeness, Fernandina, Fla. (50). **F**

Carnell, Frederic J., Assistant in Physics, Sheffield Scientific School, New Haven, Conn. (50). **B**

Carpenter, Ford A., U. S. Weather Bureau, San Diego, Cal. (44). **B**

Carpenter, Franklin R., Ph. D., Mining Expert, 1420 Josephine St. Denver, Colo. (50). **D E**

*Carpenter, Louis G., Agric. College, Fort Collins, Colo. (32). 1889. **A B**

Carroll, James, M. D., 910 23d St., N.W., Washington, D. C. (50). **F K**

Carroll, James J., Waco, Texas. (50). **F**

Carss, Miss Elizabeth, Teachers' College, New York, N. Y. (49). **G**

Carter, Henry C., 475 West 143d St., New York, N. Y. (50).

Carter, James, M. D., Carbon, Wyoming. (50). **E K**

CARTER, JAMES C., 277 Lexington Ave,, New York, N. Y. (36).

*Carter, James Madison G., M. D., Waukegan, Ill. (39). 1895. **F**

Carter, John E., Knox and Coulter Sts., Germantown, Pa. (33). **B H**

Carter, Marion H., Fiske Hall, Barnard College, New York, N. Y. (49).

Carter, William Harrison, Stone Mountain, Ga. (50). **A**

*Carus, Paul, Ph. D., Editor Open Court Pub. Co., 324 Dearborn St., Chicago, Ill. (40). 1895. **H**

Cary, Albert A., 95 Liberty St., New York, N. Y. (36). **D**

Cary, Mrs. Elizabeth M. L., 184 Delaware Ave., Buffalo, N. Y. (45). **E**

Case, Eckstein, Case School of Applied Science, Cleveland, Ohio. (47).

Case, Ermine Cowles, Prof.of Chemistry and Geology, State Normal School, Milwaukee, Wis. (50). **B C E**

*Casey, Thomas L., Major of Engineers, U. S. A., P. O. Drawer 71, St. Louis, Mo. (38). 1892. **D F**

Caswell, W. H., M. D., 201 West 55th St., New York, N. Y. (50).

Cathcart, Miss J. R., The Barnard, 71st St. and Central Park, New York, N. Y. (50).

*Catlin, Charles A., 133 Hope St., Providence, R. I. (33). 1895. **C**

Catt, George William, C. E., President, Atlantic, Gulf and Pacific Co., Park Row Building, New York, N. Y. (51). **D**

*Cattell, H. W., M. D., 3709 Spruce St., Philadelphia, Pa. (50). 1901. **K**

*Cattell, Prof. James McKeen, Columbia Univ., New York, N. Y. (44). 1896. **B F H I**

Chadwick, Leroy S., 1824 Euclid Ave., Cleveland, Ohio. (51).

Chaillé, Stanford E., M. D., LL.D., Dean of Medical Department, Tulane University, New Orleans, La. (51). **K**

Chamberlain, Charles Joseph, Dept. of Botany, University of Chicago, Chicago, Ill. (50). **G**

Chamberlain, Frederic M., U. S. Fish Commission, Washington, D. C. (51). **F**

Chamberlain, Paul Mellen, Prof. of Mechanical Engineering, Lewis Institute, Chicago, Ill. (51). **D**

Chamberlin, Rollin Thomas, Hyde Park Hotel, Chicago, Ill. (50). **C E**

*Chamberlin, T. C., Head of Dept. of Geology, Univ. of Chicago, Chicago, Ill. (21). 1877. **B E F H**

Chamberlin, W. E., Ph. D., 111 Water St., New York, N. Y. (50).

Chambers, Frank R., 569 Broadway, New York, N. Y. (50).

*Chandler, Prof. C. F., School of Mines, Columbia University, New York, N. Y. (19). 1875. **C**

*Chandler, Prof. Charles Henry, Ripon, Wis. (28). 1883. **A**

Chandler, Elwyn Francis, Instructor in Mathematics, University of North Dakota, University, N. Dak. (50). **A B**

*Chandler, Seth C., 16 Craigie St., Cambridge, Mass. (29). 1882. **A**

Chaney, Prof. Lucian W., Carleton College, Northfield, Minn. (45).

Channing, Walter, M. D., Brookline, Mass. (50). **I K**

*Chanute, O., 413 E. Huron St., Chicago, Ill. (17). 1877. **D I**
Charlton, Orlando Clarke, Professor, Biology and Geology, Baylor University, Waco, Tex. (51). **E F G**
*Chase, Frederick L., Yale University Observatory, New Haven, Conn. (43). 1896. **A**
Chase, R. Stuart, 53 Summer St., Haverhill, Mass. (18). **F**
*Chauvenet, Wm. M., Mining Engineer, 620 Chestnut St., St. Louis, Mo. (50). 1901. **C D**
*Cheesman, T. M., M. D., Garrison-on-Hudson, N. Y. (50) 1901. **K**
Cheney, Mrs. B. P., Sr., Wellesley, Mass. (51).
Cheney, Mrs. Ednah Dow, Jamaica Plain, Mass. (47).
*Cheney, Lellen Sterling, 318 Bruen St., Madison, Wis. (42). 1894. **G**
Cheney, Willard Colfax, Electrical Engineer, Portland, Oregon. (50). **D**
*Chester, Prof. Albert H., Rutgers College, New Brunswick, N. J. (29). 1882. **C F**
*Chester, Colby M., Captain, U. S. N., Navy Dept., Washington, D. C. (28). 1897. **E**
Chester, Wayland Morgan, Associate Professor of Biology, Colgate University, Hamilton, N. Y. (50). **F**
*Chickering, J. W., The Portner, Washington, D. C. (22). 1877. **G I**
Chilcott, Ellery Channing, Professor of Geology, Agricultural College, Brookings, S. D. (50). **E**
*Child, Charles Manning, Instructor in Zoology, University of Chicago, Chicago, Ill. (50). 1901. **F**
*Child, Clement D., Colgate Univ., Hamilton, N. Y. (44). 1899. **B**
Childs, Arthur Edward, V. P. and Treas. the Light, Heat and Power Corporation, 23 Central St., Boston, Mass. (50). **B D I**
Childs, James Edmund, Civil Eng., 300 W. 93d St., New York, N. Y. (51). **D**
Chisholm, Hugh J., 813 Fifth Avenue, New York, N. Y. (50).
Chisolm, George E., 19 Liberty St., New York, N. Y. (50).
*Chittenden, Frank Hurlbut, U. S. Dept. Agriculture, Washington, D. C. (48). 1901. **F**
*Chittenden, Russell H., Director of Sheffield Scientific School, Yale University, New Haven, Conn. (50). 1901. **C F**
Chittenden, Thomas A., Instructor in Mechanical Engineering, A. and M. College, W. Raleigh, N. C. (50). **D**
*Christie, James, Chief Mech. Engineer Am. Bridge Co., Pencoyd, Pa. (33). 1894. **D**
Chrystie, Wm. F., Hastings-on-Hudson, New York, N. Y. (36).
Church, E. D., Jr., 63 Wall St., New York, N. Y. (50).
Church, Royal Tyler, Turin, N. Y. (38). **D F**
Church, Samuel H., Secretary, Carnegie Institute, 1003 Penn Ave., Pittsburg, Pa. (51). **D I**

*Chute, Horatio N., Instructor in Physical Sciences, High School, Ann Arbor, Mich. (34). 1889. **A B C**

*CILLEY, FRANK H., Mass. Inst. Technology, Boston, Mass. (49). 1901. **A B D**

Clancy, Michael Albert, 1426 Corcoran St., Washington, D. C. (40). **H**

Clapp, Frederick Gardner, 169 Boston St., South Boston, Mass. (51). **E**

Clark, Alexander S., Westfield, N. J. (33).

Clark, Mrs. Alfred Corning, 347 W. 89th St., New York, N. Y. (49).

Clarke, Miss Cora H., 91 Mt. Vernon St., Boston, Mass. (47). **F G**

Clark, Edmund, 426 Sanford Ave., Flushing, L. I., N. Y. (50).

Clark, Edward, 417 Fourth St., N.W., Washington, D. C. (40).

Clark, Ernest P., 229 W. 18th St., New York, N. Y. (50). 1901. **D**

*Clarke, Prof. F. W., U. S. Geol. Survey, Washington, D. C. (18). 1874. **C**

*Clark, Gaylord Parsons, Professor of Physiology, Syracuse University, Syracuse, N. Y. (50). 1901. **F K**

Clark, Herbert A., Haskell Institute, Lawrence, Kansas. (50). **B C**

Clark, Hubert Lyman, Ph. D., Professor of Biology, Olivet College, Olivet, Mich. (50). **F**

Clark, James Frederick, M. D., Fairfield, Iowa. (50). **I K**

*Clark, Prof. John E., 445 Orange St., New Haven, Conn. (17). 1875. **A**

Clark, John Jesse, Dean of Faculty, International Correspondence Schools, Scranton, Pa. (50). **B D**

*Clarke, John Mason, Ph. D., Asst. State Geologist and Palæontologist, State Hall, Albany, N. Y. (45). 1897. **E**

*Clark, John S., 110 Boylston St., Boston, Mass. (31). 1901. **B C I**

Clark, Joseph E., M. D., 396 Fourth St., Brooklyn, N. Y. (43). **A E**

Clark, Oliver Durfee, 590 Halsey St., Brooklyn, N. Y. (41). **E F**

*Clarke, Prof. Samuel Fessenden, Williams College, Williamstown, Mass. (50). 1901. **F**

Clark, Thomas H., Box 166, Plymouth, N. H. (40).

Clark, Wm. Brewster, M. D., 50 E. 31st St., New York, N. Y. (33). **C F**

*Clark, Wm. Bullock, Ph. D., Johns Hopkins University, Baltimore, Md. (37). 1891. **E**

*Claypole, Dr. Agnes M., Pasadena, Cal. (46). 1899. **F**

*Claypole, Miss Edith J., Pasadena, Cal. (46). 1899. **F**

Cleaver, Albert N., South Bethlehem, Pa. (50). **D**

Cleburne, William, 1219 So. Sixth St., Omaha, Neb. (51). **G**

Clerc, Frank L., Professor of Metallurgy and Assaying, Colorado State School of Mines, Hotel Metropole, Denver, Colo. (50). **C D**

Clifton, Richard S., Assistant Secretary, A. A. A. S., Washington, D. C. (49). **F**

Cline, Isaac M., M. D., U. S. Weather Bureau, New Orleans, La. (50). **K**

*Cloud, John W., 974 Rookery, Chicago, Ill. (28). 1886. **A B D**

Clough, Albert L., Box 114, Manchester, N. H. (45). **B**

Coates, Charles E., Ph. D., Louisiana State Univ., Baton Rouge, La. (46). **C**

Cobb, Arthur, Architect, 600 Equitable Building, Louisville, Ky. (50). **D**

Cobb, Prof. Collier, University of North Carolina, Chapel Hill, N. C. (49).

*Cochran, C. B., 514 South High St., West Chester, Pa. (43). 1896. **C**

*Cockerell, T. D. A., Consulting Entomologist, N. M. Agric. Exper. Station, East Las Vegas, New Mexico. (50). 1901. **F**

Cockran, Hon. W. Bourke, 31 Nassau St., New York, N. Y. (50).

Coe, Henry W., M. D., "The Marquam," Portland, Oregon. (32). **F H**

Coe, Thomas Upham, M. D., Bangor, Maine, (51) **K**

Coffeen, Hon. H. A., Sheridan, Wyoming. (51).

Coffin, C. A., 44 Broad St., New York, N. Y. (50).

*Coffin, Selden J., Ph. D., Lafayette College, Easton, Pa. (22). 1874. **A I**

*Cogswell, Wm. B., Syracuse, N. Y. (33). 1891. **D**

Cohen, Mendes, Civil Engineer, 825 N. Charles St., Baltimore, Md. (50). **D**

Cohen, Solomon Solis, M. D., 1525 Walnut St., Philadelphia, Pa. (50). **F K**

Coit, Joseph Howland, Saint Paul's School, Concord, N. H. (50).

Coit, J. Milner, Ph. D., Saint Paul's School, Concord, N. H. (33). **B C E**

*Colburn, Richard T., Elizabeth, N. J. (31). 1894. **F H I**

Colby, Edward A., 128 Lincoln Ave., Newark, N. J. (49).

*Cole, Prof. Alfred D., Ohio State Univ., Columbus, Ohio. (39). 1891. **B C**

Cole, W. F., M. D., Waco, Texas. (51) **K**

Coleman, Clarence, U. S. Assistant Engineer, Duluth, Minn. (51). **D H**

Coleman, Walter, Prof. of Natural History, Sam Houston Normal Institute, Huntsville, Texas. (51) . **K**

Colgate, Abner W., Morristown, N. J. (44).

Colie, Edw. M., East Orange, N. J. (30). **E I**

Collett, Samuel Williamson, Principal of High School, Urbana, Ohio. (50). **G**

Collier, Price, Tuxedo Park, N. Y. (50).

*Collin, Prof. Alonzo, Cornell College, Mount Vernon, Iowa. (21). 1891. **B C**

Collin, Rev. Henry P., 58 Division St., Coldwater, Mich. (37). **H**

*Collingwood, Francis, Elizabeth, N. J. (36). 1888. **D**

Collins, T. Shields, M. D., Globe, Arizona. (51). **K**

*Colvin, Verplanck, Supt. N. Y. State Adirondack Survey, Albany, N. Y. (28). 1880. **E**

*Comstock, Prof. Charles Worthington, State School of Mines, Golden, Colo. (47). 1901. **A D**

*Comstock, Prof. Geo. C., Washburn Observatory, University of Wisconsin, Madison, Wis. (34). 1887. **A**

*Comstock, Prof. Theo. B., Mining and Metallurgical Engineer, 534 Stinson Bldg., Los Angeles, Cal. (24). 1877. **B D E**

Comstock, Dr. T. Griswold, 3401 Washington Ave., St. Louis, Mo. (29). **F H**

Conant, Miss E. Ida, 42 W. 48th St., New York, N. Y. (33). **F H I**

*Conant, Prof. Levi L., Polytechnic Institute, Worcester, Mass. (39). 1892. **A**

Conarroe, Thomas H., M. D., Lecturer on Biology, Hahnemann Medical College of Philadelphia, Philadelphia, Pa. (50). **F K**

*Conklin, Edwin Grant, Professor of Biology, University of Pennsylvania, Philadelphia, Pa. (50). 1901. **F**

Connelley, C. B., Supervisor Industrial Schools, Allegheny, Pa. (49). **I**

Connor, Leartus, M. D., President of Michigan State Medical Society, 103 Cass St., Detroit, Mich. (51). **K**

Converse, Vernon G., 15th St. and Liberty Ave., Pittsburg, Pa. (50). **D**

Conway, George M., Mechanical Engineer, 10 Belvedere, Milwaukee, Wis. (51). **D**

Cook, Dr. Charles D., 162 Remsen St., Brooklyn, N. Y. (25).

Cooke, George Willis, Park St., Wakefield Park, Wakefield, Mass. (47). **H I**

Cook, James B., Randolph Building, Memphis, Tenn. (50).

Cook, Melville T., Greencastle, Ind. (45). **G**

*Cook, Orator F., U. S. Dept. of Agriculture, Washington, D. C. (40). 1892. **G**

Cook, Samuel R., Professor of Physics and Chemistry, Washburn College, Topeka, Kansas. (50). **B C**

*Cooley, Grace E., Ph. D., Wellesley College, Wellesley, Mass. (47). 1900. **G I**

*Cooley, Prof. LeRoy C., Vassar College, Poughkeepsie, N. Y. (19). 1880. **B C**

*Cooley, Prof. Mortimer E., University of Michigan, Ann Arbor, Mich. (33). 1885. **D**

Cooley, Robert A., Zoologist and Entomologist, Montana Agr'l College and Experiment Station, Bozeman, Montana. (50). **F**

Cooper, Hon. Edward, 12 Washington Square, N., New York, N. Y. (49).

Cooper, James Campbell, Room 5, Veale Block, Topeka, Kansas. (50). C E

*Copeland, Edwin Bingham, 653 E. 57th St., Chicago, Ill. (45). 1901. G

Coquillett, Daniel William, U. S. National Museum, Washington, D. C. (43). F

*Corbett, L. C., U. S. Dept. Agriculture, Washington, D. C. (48). 1901. G

Cornman, Oliver P., Ph. D., 2252 N. 20th St., Philadelphia, Pa. (46). H

*Corthell, Elmer L., 1 Nassau St., New York, N. Y. (34). 1886. D E I

Corwin, Clifford Egbert, Teacher of Science, Marietta High School Marietta, Ohio. (50). C

Coster, William H., Chemist and Biologist to Bureau of Water, Department of Public Works, Pittsburg, Pa. (51). C

*Coulter, Prof. John M., University of Chicago, Chicago, Ill., (32). 1884. G

Courtis, William Munroe, 412 Hammond Bldg., Detroit, Mich. (46). E C G

Coutant, Richard Bonnet, M. D., Tarrytown, N. Y. (51). K

*Coville, Frederick V., U. S. Dept. Agriculture, Washington, D. C. (35). 1890. G

Cowell, John F., Botanic Garden, West Seneca, N. Y. (35.) G

*Cowles, Alfred H., 656 Prospect St., Cleveland, Ohio. (37). 1897. B C

Cowles, Miss Louise F., Mt. Holyoke College, South Hadley, Mass. (47). E

Cox, Abraham Beekman, Civil Engineer, Cherry Valley, N. Y. (50). D

*Cox, Charles F., Grand Central Depot, New York, N. Y. (43). 1900. F G

Cox, Edmund Otis, C. E., Manhattan Railway Co., 11 Manhattan Ave., New York, N. Y. (51). D

Cox, Ulysses O., Professor of Biology, State Normal School, Mankota, Minn. (50). F

Coxe, Eckley B., Jr., U. S. Weather Bureau Observer, Drifton, Pa. (51).

Coyle, Rev. John S., S. J., St. Joseph's College, 17th and Stiles Sts., Philadelphia, Pa. (48). B

Crafts, Clayton Edward, 5433 Washington Boulevard, Chicago, Ill. (50). I

*Crafts, James Mason, Mass. Inst. Technology, Boston, Mass. (47). 1898. C

*Cragin, Francis Whittemore, Ph. D., 1715 Wood Ave., Colorado Springs, Colo. (29). 1890. E F H

Craig, John, College of Agriculture, Cornell University, Ithaca, N. Y. (41). **G**

Craig, Wallace, Zoological Laboratory, Univ. of Chicago, Chicago, Ill. (50). **F**

CRAM, ROYS JONES, 26 Hancock Ave., West, Detroit, Mich. (51).

*Crampton, Chas. A., M. D., Office of Internal Revenue Commissioner, U. S. Treasury Dept., Washington, D. C. (36). 1887. **C**

Crampton, Henry E., Adjunct Professor of Zoology, Barnard College, Columbia University, New York, N. Y. (51). **F**

*Crandall, Charles S., Glendale, Cal. (40). 1894.

Crandall, Francis Asbury, 2219 15th St., N.W., Washington, D. C. (50). **I**

Crane, James M., Board of Education, Newburgh, N. Y. (50). **I**

Crane, Walter, Supt. Carnegie Free Library, Braddock, Pa. (47). **G**

Cranford, J. P., Wakefield, New York, N. Y. (50).

Cranston, Robert E., E. M., M'g'r Ashburton Mining Co., Folsom, Cal. (50). **D E**

Crawford, David Francis, Supt. Motive Power, Penna. Co., Ft. Wayne, Ind. (50). **D**

Crawford, John, Leon, Nicaragua, Central America. (40). **E H**

*Crawford, Morris B., Middletown, Conn. (30). 1889. **B**

*Crawley, Edwin S., Ph. D., Springfield Ave., Chestnut Hill, Philadelphia, Pa. (45). 1900. **A**

Crawley, Howard, Wyncote, Pa. (51). **F**

Crehore, Albert Cushing, Brookside Park, Tarrytown, N. Y. (50). **D E**

Crile, George W., M. D., 169 Kensington St., Cleveland, Ohio. (51). **K**

Crockard, Frank Hearne, E. M., C. E., Asst. Mgr. Riverside Dept. National Tube Co., Lock Box 34, Wheeling, W. Va. (50). **D**

*Crocker, Francis B., Professor of Electrical Engineering, Columbia University, New York, N. Y. (50). 1901. **B D**

*Crockett, Prof. Charles W., Rensselaer Polytechnic Institute, Troy, N. Y. (39). 1894. **A D**

Crook, Alja Robinson, Ph. D., 1914 Sheridan Road, Evanston, Ill. (47). **E**

*Crosby, Prof. W. O., Mass. Institute Technology, Boston, Mass. (47). 1900. **E**

*Cross, Prof. Charles R., Mass. Inst. Technology, Boston, Mass. (29). 1880. **B**

Crouse, Hugh Woodward, M. D., Victoria, Texas. (50). **F K**

CROWELL, A. F., Woods Holl, Mass. (30). **C**

*Crowell, John Franklin, Bur. of Statistics, Treasury Dept., Washington, D. C. (50). 1901. **I**

Crozier, William, Brigadier-General and Chief of Ordnance, U. S. A., War Department, Washington, D. C. (50). **D**

Cruikshank, James, LL.D., 206 S. Oxford St., Brooklyn, N. Y. (36).
Crump, Col. M. H., Bowling Green, Ky. (29). **E**
Cryer, Matthew H., M. D., D. D. S., 1420 Chestnut St., Philadelphia, Pa. (50). **F K**
*Culin, Stewart, Univ. of Pennsylvania, Philadelphia, Pa. (33). 1890. **H**
Culver, Charles Mortimer, M. D., 36 Eagle St., Albany, N. Y. (51). **K**
*Cumings, Edgar R., Bloomington, Ind. (48). 1901. **E**
*Cummings, Miss Clara E., Wellesley College, Wellesley, Mass. (47). 1899. **G**
Cummins, George Wyckoff, M. D., Belvidere, N. J. (50). **G K**
Cunningham, Francis A., 1613 Wallace St., Philadelphia, Pa. (33). **B D E**
*Cunningham, Prof. Susan J., Swarthmore College, Swarthmore, Pa. (38). 1901. **A**
Cuntz, Johannes H., 325 Hudson St., Hoboken, N. J. (36).
Currie, C. A., M. D., P. O. Box 1606, Philadelphia, Pa. (48). **F**
Curtis, Charles B., 9 East 54th St., New York, N. Y. (50).
Curtis, Geo. W., McKinney, Texas. (50).
Curtis, H. Holbrook, M. D., 118 Madison Ave., New York, N. Y. (51). **K**
Curtis, Mattoon M., Prof. of Philosophy, Western Reserve University, Cleveland, Ohio. (50). **H I**
Curtis, William E., Post Building, Washington, D. C. (40). **HI**
*Cushing, Henry Platt, Adelbert College, Cleveland, Ohio. (33). 1888. **E**
Cushing, John J., 1001 Union Trust Bldg., Cincinnati, Ohio. (50). **D**
*Cushman, Allerton, Ph. D., Instructor in Chemistry, Bryn Mawr College, Bryn Mawr, Pa. (50). 1901. **C**
*Cushny, Arthur R., Professor of Materia Medica and Therapeutics, Univ. of Michigan, Ann Arbor, Mich. (50). 1901. **K**
Cutler, Colman Ward, M. D., 36 East 33d St., New York, N. Y. (50). **K**
Cutter, Ephraim, M. D., 120 Broadway, New York, N. Y. (51). **K**
Cutter, Irving S., Box 732, Lincoln, Neb. (50). **F G**
Cutter, W. D., College of Physicians and Surgeons, Columbia Univ., New York, N. Y. (50). **K**
*Dabney, Charles W., Ph. D., President University of Tennessee, Knoxville, Tenn. (47). 1901. **C**
Daggette, Alvin S., M. D., 400 South Craig St., Pittsburg, Pa. (50). **F K**
Dale, J. Y., M. D., P. O. Box 14, Lemont, Pa. (51). **K**
*Dall, William H., Smithsonian Institution, Washington, D. C. (18). 1874. **F H**
Dalrymple, W. H., Prof. Vet. Science, La. State Univ. and A. & M. College, Baton Rouge, La. (50). **F K**

*Dana, Dr. Charles L., 50 W. 46th St., New York, N. Y. (46). 1889. H

*Dana, Edward Salisbury, New Haven, Conn. (23). 1875. B E

Danforth, Isaac Newton, M. D., 70 State St., Chicago, Ill. (50). K

Daniel, John, Professor of Physics, Vanderbilt Univ., Nashville, Tenn. (50). B

Danielson, A. H., Agricultural College, Fort Collins, Colo. (50). G

*Darton, Nelson H., U. S. Geol. Survey, Washington, D. C. (37). 1893.

d'Auria, Luigi, M. E., 3810 Locust St., Philadelphia, Pa. (51). A D

*Davenport, Charles Benedict, Ph. D., Univ. of Chicago, Chicago, Ill. (46). 1898. F

Davenport, Eugene, Dean of the College of Agriculture, University of Illinois, Champaign, Ill. (39).

Davenport, Francis Henry, M. D., 419 Boylston St., Boston, Mass. (50). K

*Davidson, George, 2221 Washington St., San Francisco, Cal. (29). 1881. A B D

Davidson, R. J., Agric. Exper. Station, Blacksburg, Va. (40). C

Davies, William G., 22 E. 45th St., New York, N. Y. (49).

Davis, Abial B., 129 East Lincoln Ave., Mt. Vernon, N. Y. (44). A

Davis, Andrew McFarland, 10 Appleton St., Cambridge, Mass. (35). H

Davis, Bergen, Columbia University, New York, N. Y. (49). B

*Davis, Bradley Moore, Dept. of Botany, Univ. of Chicago, Chicago, Ill. (45). 1897. G

Davis, Charles F., Fort Collins, Colo. (50). C

*Davis, C. H., Commander U. S. N., Navy Dept., Washington, D. C. (40). 1896.

Davis, Edward E., 47 W. Main St., Norwich, N. Y. (50).

Davis, George S., P. O. Box 724, Detroit, Mich. (50).

*Davis, Herman S., Ph. D., Director of International Latitude Station, Gaithersburg, Md. (50). 1901. A

*Davis, J. J., M. D., 1119 College Ave., Racine, Wis. (31). 1899. F G

Davis, John J., Attorney at law, Clarksburg, W. Va. (50). I

Davis, J. Woodbridge, 523 West 173d St., New York, N. Y. (47). A

Davis, Kary Cadmus, Ph. D., Professor of Horticulture and Forestry, State University, Morgantown, W. Va. (50). G

Davis, Nathan Smith, M. D., LL. D., 65 Randolph St., Chicago, Ill. (51). K

Davis, N. S., Jr., 291 Huron St., Chicago, Ill. (50). F G

Davis, Wm. Harper, Asst. in Psychology, Columbia Univ., New York, N. Y. (50). H I

*Davis, Prof. Wm. Morris, Cambridge, Mass. (33). 1885. B E

Davis, Wm. Walley, Virginia Iron, Coal and Coke Co., Roanoke, Va. (50). C

Davison, Alvin, Ph. D., Lafayette College, Easton, Pa. (49).
Davison, John M., 340 Oxford St., Rochester, N. Y. (38). **C**
Daviss, Edward Paxton, M. D., 205–6 Binz Building, Houston, Texas, (51). **K**
Davy, Joseph Burtt, Asst. Botanist, Agric. Exper. Station, Berkeley, Cal. (51) **G**
Dawson, Percy Millard, M. D., Instructor in Physiology, Johns Hopkins Medical School, Baltimore, Md. (50). **K**
*Day, Fisk H., M. D., 309 Sycamore St., Lansing, Mich. (20). 1874. **E F H**
*DAY, WILLIAM SCOFIELD, Ph. D., Tutor in Physics, Columbia University, New York, N. Y. (50). 1901. **B**
Dean, Seth, C. E., Surveyor of Mills County, Glenwood, Iowa. (34). **D**
Dean, Wm. H., 167 West River St., Wilkes-Barre, Pa. (50). **C**
Deans, John Sterling, Chief Engineer, Phoenix Bridge Co. Phoenixville, Pa. (51). **D**
de Arozarena, Rafael M., Consulting Engineer, 2da Calle de las Estaciones, Esquina de Encino, City of Mexico, Mexico. (51). **D**
de Benneville, James S., University Club, 1510 Walnut St., Philadelphia, Pa. (46). **C**
de Coppet, Henry, 22 West 17th St., New York, N. Y. (49).
Deens, Miss Anna M., 216 North Ave., W., Allegheny, Pa. (50). **F G**
de Forest, Robert W., 30 Broad St., New York, N. Y. (49).
de Funiak, Frederick, Consulting Engineer, 204 E. Chestnut St., Louisville, Ky. (51). **D**
De Garmo, William Burton, M. D., Professor of Surgery, N. Y. Post Graduate Medical School and Hospital, 56 W. 36th St., New York, N. Y. (51). **K**
*Deghu e, Joseph A., Ph. D., 247 Harrison St., Brooklyn, N. Y. (40). 1900. **C**
*Delabarre, E. B., Ph. D., Professor of Psychology, Brown University, Providence, R. I. (49). 1901. **H I**
Delafield, Maturin L., Jr., Fieldston, Riverdale, New York, N. Y. (43). **G**
Delafond, E., Ingenieur Chimiste, P. O. Box 252, San Juan, Porto Rico. (50). **C**
DE LANDERO, CARLOS F., Asst. Director Pachuca and Real del Monte Mining Co., Pachuca, Mexico. (36). **B C**
Delano, Frederic A., Supt. of Motive Power, C. B. and Q Railroad, 209 Adams St., Chicago, Ill. (50). **D**
Delany, Patrick Bernard, E. E., Inventor, South Orange, N. J. (50). **D**
Dempster, Alexander, Stanton and Euclid Aves., Pittsburg, Pa. (50). **D**

*Dennis, David Worth, Professor of Biology, Earlham College, Richmond, Ind. (50). 1901. **F**

*Dennis, Louis Monroe, Cornell University, Ithaca, N. Y. (43). 1895. **C**

*Denton, Prof. James E., Stevens Institute, Hoboken, N. J. (36). 1888. **A B D**

de Raasloff, Harold, Civil Engineer, 18 Burling Slip, New York, N. Y. (51). **D**

Derby, George McClellan, Major, Corps of Engineers, U. S. A., 3232 Prytania St., New Orleans, La. (50). **D**

*Derby, Orville A., Commissao Geologica, Sao Paulo, Brazil, South America. (39). 1890. **E**

*de Schweinitz, E. A., M. D., U. S. Dept. Agriculture, Washington, D. C. (36). 1889. **C**

Detmers, Fredericka, 1315 Neil Ave., Columbus, Ohio. (48). **G**

Devereux, W. B., 99 John St., New York, N. Y. (50).

*Dewey, Lyster H., U. S. Dept. Agriculture, Washington, D, C. (40). 1899. **F G**

*Dexter, Franklin, M. D., Associate Professor of Anatomy, Harvard Medical School, Boston, Mass. (50). 1901. **K**

Dickerson, E. N., 141 Broadway, New York, N. Y. (49).

Dickinson, Gordon K., M. D., 278 Montgomery St., Jersey City, N. J. (51). **K**

Diemer, Hugo, Associate Professor of Mechanical Engineering, Univ. of Kansas, Lawrence, Kans. (49).

*Dimmock, George, Box 1597, Springfield, Mass. (22). 1874. **F**

Dimock, Mrs. Henry F., 25 East 60th St., New York, N. Y. (50).

Dimon, Miss Abigail Camp, 367 Genesee St., Utica, N. Y. (50). **F K**

Dinkey, Alva C., General Supt. Homestead Steel Works, Munhall, Pa. (50). **D**

Dinsmore, Prof. Thos. H., Jr., 1012 E. Adams St., Syracuse, N. Y. (29). **B C**

Disbrow, William S., M. D., 151 Orchard St., Newark, N. J. (51). **K**

*Dixon, Roland B., Peabody Museum, Cambridge, Mass. (46). 1901. **H**

Dixon, Samuel Gibson, M. D., Acad. Nat. Sciences, 1900 Race St., Philadelphia, Pa. (50). **F K**

Dock, George, M. D., 1014 Cornwell Place, Ann Arbor, Mich. (51). **K**

*Dodge, Charles Richards, U. S. Dept. of Agriculture, Washington, D. C. (22). 1874.

*Dodge, Charles Wright, Univ. of Rochester, Rochester, N. Y. (39). 1898. **F**

Dodge, D. Stuart, 225 Madison Ave., New York, N. Y. (49).

Dodge, Philip T., Tribune Building, New York, N. Y. (44). **B D**

*Dodge, Richard E., Teachers' College, Columbia Univ., New York, N. Y. (49). 1901. **E I**

Dodman, Alfred C., Jr., 235 W. 108th St., New York, N. Y. (50).
Doherty, Henry L., 40 Wall St., New York, N. Y. (48). **B C D**
Doherty, Manning William, Associate Professor of Biology, Ontario Agricultural College, Guelph, Canada. (50). **F G**
*Dolbear, Prof. A. Emerson, Tufts College, Mass. (20). 1880. **B**
Dole, Rev. Charles Fletcher, Jamaica Plain, Mass. (50). **I**
Domenech, Manuel V., Civil Engineer and Architect, Lock Box 220, Ponce, Porto Rico. (50). **D I**
Donovan, Cornelius, Port Eads, La. (51).
*Doolittle, Prof. C. L., Upper Darby, Pa. (25). 1885. **A**
*Dorsey, George A., Ph. D., Field Columbian Museum, Chicago, Ill. (39). 1892. **H**
*Dorsey, N. Ernest, Ph. D., Annapolis Junction, Md. (46). 1898. **B**
Doty, Paul, 230 Woodward Ave., Detroit, Mich. (43). **D**
Doubt, Thomas E., Professor of Physics and Electrical Engineering, Univ. of Washington, Seattle, Wash. (48). **B**
Doughty, Mrs. Alla, Milford, Pa. (49).
Doughty, John W., 165 Johnston St., Newburgh, N. Y. (19). **E**
Douglas, Mrs. George William, Tuxedo Park, N. Y. (49).
Douglas, James, 99 John St., New York, N. Y. (49).
Douglas, Orlando B., 20 Pleasant St., Concord, N. H. (49).
*Douglass, Andrew E., Amer. Mus. of Nat. History, Central Park, New York, N. Y. (31). 1885. **H**
Dow, Herbert H., Midland, Mich. (47). **C**
Dowell, Philip, Ph. D., Professor of Natural Science, Muhlenberg College, Allentown, Pa. (50). **F**
Downing, Elliott Rowland, Ph. D., Professor of Biology, Northern State Normal School, Marquette, Mich. (51). **F**
Downs, Edgar Selah, 1420 Pine St., Philadelphia, Pa. (50). **B**
*Draper, Daniel, Ph. D., N. Y. Meteorological Observatory, Central Park, 64th St., Fifth Ave., New York, N. Y. (29). 1881. **A B D F**
Draper, Mrs. Henry, 271 Madison Ave., New York, N. Y. (49).
Drayer, H. C., Superintendent of Schools, Manteno, Ill. (51).
Drescher, Willibald A. E., P. O. Drawer 1033, Rochester, N. Y. (41). **F**
*Droppers, Garrett, President of the State University, Vermillion, S. Dak. (50). 1901. **I**
*Drown, Prof. Thos. M., Lehigh University, South Bethlehem, Pa. (29). 1881. **C**
Drummond, Isaac Wyman, Ph. D., 436 W. 22d St., New York, N. Y. (36).
Dryer, Charles Redway, Professor of Geography, Indiana State Normal School, Terre Haute, Ind. (50). **E**
Duane, Russell, 911 Pine St., Philadelphia, Pa. (50). **I**
*Duane, William, Ph. D., Professor of Physics, State University, Boulder, Colo. (50). 1901. **B**

*Du Bois, Prof. Aug. J., New Haven, Conn. (30). 1882. **A B D**

De Bois, Howard Weidner, 4526 Regent St., Philadelphia, Pa. (47). **A**

*Du Bois, Patterson, 401 So. 40th St., Philadelphia, Pa. (33). 1887. **C H I**

DuBois, Wm. E. B., Professor of Economics and History, Atlanta University, Atlanta, Ga. (50). **I**

Du Bose, F. G., M. D., 915 Alabama St., Selma, Ala. (51). **K**

Dudgeon, H. R., M. D., Demonstrator of Surgery, School of Medicine, University of Texas, Galveston, Texas. (50). **F K**

*Dudley, Charles B., Drawer 334, Altoona, Pa. (23). 1882. **B C D**

Dudley, S. W., 15 Austin St., Westville, Conn. (50). **A D**

*Dudley, Wm. L., Vanderbilt University, Nashville, Tenn. (28). 1881. **C**

*Dudley, Prof. Wm. R., Dept. of Systematic Botany, Stanford University, Cal. (29). 1883. **G**

*Duggar, Benjamin Minge, U. S. Dept. Agriculture, Washington, D. C. (45). 1900. **G**

Duke, Frank Williamson, Professor of Mathematics, Hollins Institute, Hollins, Va. (50). **A**

Dulles, Charles W., M. D., 4101 Walnut St., Philadelphia, Pa. (51). **K**

Dumaresq, Philip K., Sears Bldg., Boston, Mass. (50).

*Dumble, E. T., Consulting Geologist, Southern Pacific Co., 1708 Prairie Ave., Houston, Tex. (37). 1891. **E**

Duncan, Fred. N., Chemist, Georgetown, Texas. (50). **C**

Duncan, George Martin, Professor of Philosophy, Yale University, New Haven, Conn. (50). **H**

Duncanson, Henry Bruce, Professor of Biology, State Normal School, Peru, Neb. (50). **F**

Duncklee, John B., Civil Engineer, 35 Fairview Ave., South Orange, N. J. (51). **D**

*Dunham, Edward K., 338 E. 26th St., New York, N. Y. (30). 1890.

Dunham, Henry Bristol, M. D., State Sanatorium, Rutland, Mass. (51). **K**

Dunlevy, Robert Baldwin, Prof. Kansas State Normal College, Winfield, Kansas. (50). **C E**

Dunn, Gano Sillick, Electrical Engineer, Crocker-Wheeler Company, Ampere, N. J. (50). **D**

Dunn, Miss Louise Brisbin, Barnard College, Columbia University, New York, N. Y. (47). **G**

Dunning, Lehman H., M. D., 224 N. Meridian St., Indianapolis, Ind. (51). **K**

*Dunnington, Prof. F. P., University Station, Charlottesville, Va. (26). 1880. **C**

*Dunstan, A. St. C., Professor of Electrical Engineering, Polytechnic Institute, Auburn, Ala. (50). 1901. **B D**

*DuPont, Francis G., Wilmington, Del. (33). 1896. **A B D**

*Durand, Elias J., D. S., 402 Eddy St., Ithaca, N. Y. (41). 1899. **G**

Durand, John S., 146 Broadway, New York, N. Y. (49).

*Durand, W. F., Ph. D., Cornell University, Ithaca, N. Y. (37). 1890. **B**

*Durfee, William P., Ph. D., 639 Main St., Geneva, N. Y. (46). 1899. **A**

Dutton, Charles Frederic, Jr., 626 Franklin Ave., Cleveland, Ohio. (47).

Duval, Edmund P. R., 2006 University Ave., Austin, Texas. (50).

Duvel, Joseph W. T., Botanical Lab., Univ. of Michigan, Ann Arbor, Mich. (48). **G**

Dwight, Dr. Jonathan, Jr., 2 E. 34th St., New York, N. Y. (49).

*Dwight, Thomas, M. D., Harvard Medical School, Boston, Mass. (47). 1898. **H K**

*Dwight, Prof. William B., Vassar College, Poughkeepsie, N. Y. (30). 1882. **E F**

*Dyar, Harrison G., Ph. D., U. S. National Museum, Washington, D. C. (43). 1898.

Dyche, Lewis Lindsay, Professor of Systematic Zoology and Taxidermist, University of Kansas, Lawrence, Kans. (51). **F**

Dysterud, E., Electrical Engineer, Monterey, Mexico. (50). **D**

Eagleson, James B., M. D., 512 Burke Bldg., Seattle, Wash. (51). **K**

*Earle, F. S., N. Y. Botanical Garden, Bronx Park, New York. (39). 1896. **G**

*Eastman, Charles Rochester, Museum Comp. Zoology, Cambridge, Mass. (41). 1896. **E F**

*Eastman, Prof. J. R., Andover, N. H. (26). 1879. **A**

*Eastwood, Miss Alice, Curator of Herbarium, California Academy of Sciences, San Francisco, Cal. (50). 1901. **G**

Eccles, David Charles, Chemist, Agricultural College, Pullman, Wash. (50). **C**

*Eccles, Robert G., M. D., 191 Dean St., Brooklyn, N. Y. (31). 1894. **C F**

Eckel, Edwin C., C. E., Assistant in Geology, N. Y. State Museum, Albany, N. Y. (51). **E**

Eckles, C. H., Columbia, Mo. (50). **F**

*Eddy, Prof. H. T., Univ. of Minnesota, Minneapolis, Minn. (24). 1875. **A B D**

Edes, Robert Thaxter, M. D., 15 Greenough Ave., Jamaica Plain, Mass. (50). **F H K**

Edgar, Clinton G., 72 Jefferson Ave., Detroit, Mich. (46).

Edmands, Isaac Russell, Supt. Union Carbide Co., Sault Ste. Marie, Mich. (50). **C D**

Edmonds, Richard H., President and Editor, "Manufacturers' Record," Baltimore, Md. (50). D

*Edwards, Prof. Charles Lincoln, Trinity College, Hartford, Conn. (49). 1900. F

Edwards, Prof. John W., Iowa Wesleyan University, Mt. Pleasant Iowa. (48).

Ehrenfeld, Frederick, Ph. D., Instructor in Geology, University of Pennsylvania, Philadelphia, Pa. (50). E

Ehrhorn, Edward Macfarlane, County Entomologist, Santa Clara Co., Mountain View, Cal. (50). F

*Eichelberger, William Snyder, Ph. D., Nautical Almanac Office, U. S. Naval Observatory, Washington, D. C. (41). 1896. A

Eisland, John, Ph. D., Professor of Mathematics, Thiel College, Greenville, Pa. (50). A

*Eigenmann, Carl H., Ph. D., Indiana University, Bloomington, Ind. (48). 1899. F

Eilers, Anton F., Mining Engineer and Metallurgist, 751 St. Marks Ave., Brooklyn, N. Y. (50). D E

*Eimbeck, William, U. S. C. and G. Survey, Washington, D. C. (17). 1874. A B D

Eimer, August, 220 East 19th St., New York, N. Y. (50).

Elder, E. Waite, Instructor in Physics, High School, Denver, Colo. (50). B

Elftman, Arthur Hugo, Ph. D., Mining Engineer, 706 Globe Building, Minneapolis, Minn. (50). E

*Elkin, William L., Yale University Observatory, New Haven, Conn. (33). 1885. A

Elliot, George T., M. D., 36 East 35th St., New York, N. Y. (50). F K

Ellis, Frederick W., M. D., Monson, Mass. (47). B H

Ellis, H. Bert, M. D., 243–246 Bradbury Block, Los Angeles, Cal. (50). K

Ellis, Robert W., Hurley, S. D. (50). E

*Elrod, Morton John, Professor of Biology, University of Montana, Missoula, Mont. (50). 1901. F

Ely, Sumner B., Chief Engineer American Sheet Steel Co., Vandergrift Building, Pittsburg, Pa. (50). D

*Ely, Theo. N., Chief of Motive Power, Pennsylvania R.R., Broad St. Station, Philadelphia, Pa. (29). 1886. D

*Emerson, Prof. Benjamin K., Box 203, Amherst, Mass. (19). 1877. E F

*EMERSON, C. F., Box 499, Hanover, N. H. (22). 1874. A B

*Emery, Albert H., Stamford, Conn. (29). 1884. B D

Emery, Albert Hamilton, Jr., 312 Main St., Stamford, Conn. (47). D

Emmerton, Frederic Augustus, 9 Bratenahl Bldg., Cleveland, Ohio. (50). I

Emmons, Arthur B., Newport, R. I. (50). **E**

*EMMONS, S. F., U. S. Geol. Survey, Washington, D. C. (26). 1879. **E**

Enders, Howard Edwin, Professor of Biology, Lebanon Valley College, Annville, Pa. (50). **F G**

*Engelman, George J., M. D., 336 Beacon St., Boston, Mass. (25). 1875. **F H**

Engle, Wilber Dewight, Professor of Chemistry, University of Denver, University Park, Colo. (50). **C**

*Engler, Edmund Arthur, President Worcester Polytechnic Institute, Worcester, Mass. (50). 1901. **A**

English, William Thompson, M. D., Professor of Physical Diagnosis, Western University of Pennsylvania, Pittsburg, Pa. (50). **K**

ENO, A. F., 32 Fifth Avenue, New York, N. Y. (50).

Eno, John Chester, Waldorf-Astoria Hotel, New York, N. Y. (49).

Epper, Rev. Frowin, O. S. B., Mt. Angel, Oregon. (50). **F**

Esmond, Darwin W., Newburgh, N. Y. (50). **A I**

ESTES, DANA, Brookline, Mass. (29). **H I**

Evans, Alexander W., M. D., 12 High St., New Haven, Conn. (45). **G**

Evans, Henry Brown, 3009 Cambridge Place, Washington, D. C. (48). **A**

Evans, Samuel G., 211 Main St., Evansville, Ind. (39). **F**

Evans-Carrington, Rev. Edward, 227 E. Cucharras St., Colorado Springs, Colo. (51). **I**

Evers, Edward, M. D., 1861 N. Market St., St. Louis, Mo. (28). **F H**

Everts, Orpheus, M. D., Medical Superintendent, The Cincinnati Sanitarium. Sta. K, Cincinnati, Ohio. (51). **K**

*Ewell, Ervin E., 1804 S St., Washington, D. C. (40). 1896. **C**

*Eyerman, John, "Oakhurst," Easton, Pa. (33). 1889. **C E**

Faile, Thomas H., Murray Hill Hotel, New York, N. Y. (50).

*Fairbanks, Henry, Ph. D., St. Johnsbury, Vt. (14). 1874. **A B D**

Fairchild, B. T., P. O. Box 1120, New York, N. Y. (36).

*Fairchild, David Grandison, U. S. Dept. Agriculture, Washington, D. C. (47). 1898. **G**

*Fairchild, Prof. H. L., Univ. of Rochester, Rochester, N. Y. (28). 1883. **E F**

Falconer, William, Schenley Park, Pittsburg, Pa. (29).

Falding, Frederic J., Consulting Chemical Engineer, 52 Broadway, New York, N. Y. (50). **C**

Falk, Gustav, 24 East 81st St., New York, N. Y. (50).

*Fanning, John T., Consulting Engineer, Kasota Block, Minneapolis, Minn. (29). 1885. **D**

*Fargis, Rev. Geo. A., S. J., Boston College, 761 Harrison Ave., Boston, Mass. (40). 1892.

Farley, Godfrey Pearson, C. E., General Manager, W. W. & F. R. R. Co., Wiscasset, Maine. (51). **D**

*Farlow, Dr. W. G., 24 Quincy St., Cambridge, Mass. (20). 1875. **G**
Farnsworth, Philo J., M. D., Clinton, Iowa. (50). **K**
Farquhar, Miss Helen, State Normal School, West Chester, Pa. (50). **A B**
*Farquhar, Henry. Census Office, Washington, D. C. (33). 1886. **A B G I**
Farr, Marcus S., Sc. D., Princeton Univ., Princeton, N. J. (49). **E**
Farrand, Livingtson, M. D., Columbia University, New Yorv, N. Y. (50). **H**
Farwell, Elmer S., Steam Engineer, 507 W. 142d St., New York, N. Y. (51). **A D**
Farwell, Robert Benneson, C. E., 53 Monument Ave., Charlestown, Mass. (47). **D**
*Fassig, Oliver Lanard, Johns Hopkins University, Baltimore, Md. (46). 1899. **B**
Fast, Richard Ellsworth, Professor American History and Political Sciences, West Virginia University, Morgantown, W. Va. (50). **I**
Faught, John B., Professor of Mathematics, Northern State Normal School, Marquette, Mich. (50). **A**
Fawcett, Ezra, Mechanical and Electrical Engineer, 233 Ely St., Alliance, Ohio. (48). **B D**
Fay, L. G., Naval Office, 20 Exchange Place, New York, N. Y. (50).
Fellows, Charles S., 925 Guaranty Building, Minneapolis, Minn. (34) **F**
Felt, Charles Wilson, 185 Austin St., Worcester, Mass. (47). **I**
*Felt, Ephraim Porter, Ph. D., State Entomologist, Albany, N. Y. (44). 1899. **F**
Fényes, Adalbert, M. D., P. O. Box W, Pasadena, Cal. (51). **F**
Ferguson, Alexander McGowen, Instructor in Botany, Univ. of Texas, Austin, Texas. (51). **G**
Fenald, F. A., Broadway and 117th St., New York, N. Y. (43). **C**
*Fernow, Bernhard E., Director N. Y. State College of Forestry, Cornell University, Ithaca, N. Y. (31). 1887. **G I**
Ferril, William C., Curator, State Historical and Natural History Society of Colorado, Denver, Colo. (50). **E F G H I**
Ferry, Dexter M., Jr., Seedsman, 1040 Woodward Ave., Detroit, Mich. (50). **G**
*Fessenden, Prof. Reginald A., U. S. Weather Bureau, Washington D. C. (47). 1899. **A B**
*Fewkes, Dr. J. Walter, Bureau of Amer. Ethnology, Washington, D. C. (48). 1900. **H**
Field, Archelaus G., M. D., LL. B., Summit Place, Des Moines, Iowa. (48).
Field, George Wilton, Mass. Inst. Tech., Boston, Mass. (47).

Field, W. L. W., Milton, Mass. (47). **F**
Finch, John Wellington, State Geologist, Victor, Colo. (50). **E**
Findlay, Merlin C., Professor of Biology, Park College, Parkville, Mo. (50). **F**
*Fink, Prof. Bruce, Upper Iowa Univ., Fayette, Iowa. (45). 1899. **G**
*Firmstone, F., Cranberry, N. C. (33). 1887. **D**
Fischel, Washington E., M. D., 2647 Washington, Ave., St. Louis, Mo. (50). **F K**
Fisher, Louis Albert, U. S. C. and G. Survey, Washington, D.C . (47). **A B C**
Fish, Charles Henry, M. E., General Manager, Cocheco Mf'g Co., Dover, N. H. (51). **D**
*Fish, Pierre A., D. V. S., Ithaca, N. Y. (49). 1901. **K**
Fish, Walter Clark, General Elec. Co., Lynn, Mass. (50). **D**
Fishburne, Edward Bell, Jr., President Hoge Memorial Military Academy, Blackstone, Va. (51). **D**
Fisher, George E., 37 and 39 Wall St., New York, N. Y. (37).
Fisher, George Egbert, University of Pennsylvania, Philadelphia, Pa. (51).
Fisher, Irving, Ph. D., 460 Prospect St., New Haven, Conn. (50). 1901. **A I**
Fisher, Robert Jones, 614 F St., N.W., Washington, D. C. (50). **D**
Fisher, Robert Welles, M. D., 159 E. 2d South St., Salt Lake City, Utah. (51). **K**
Fisher, S. Wilson, 1502 Pine St., Philadelphia, Pa. (51). **A**
Fisher, William Bowditch, General Manager, American Zinc, Lead and Smelting Co., Cartersville, Mo. (50). **C D E**
Fisk, Herbert F., Principal of the Academy, Northwestern University, Evanston, Ill. (50).
*Fiske, Prof. Thomas S., Columbia University, New York, N. Y. 1901. (50).
Fiske, Wilbur A., Professor of Science, Richmond High School, Richmond, Ind. (51). **B**
*Fitz, George W., M. D., 483 Beacon St., Boston, Mass. (47). 1898. **H**
Fitz Gerald, Francis A. J., P. O. Box 118, Niagara Falls, N. Y. (50). **C.**
Flanders, Charles S., Franklin, Mass. (42). **E**
*Flather, John J., Professor of Mechanical Engineering, University of Minnesota, Minneapolis, Minn, (44). 1896. **D**
Fleming, John A., 1109 13th St., N. W., Washington, D. C. (48).
Fleming, Miss Mary A., The Oxford, 432 Pearl St., Buffalo, N. Y. (47). **E G**
Flemming, Dudley D., Gas Engineer, 249 Washington St., Jersey City, N. J. (50). **C D**
*Fletcher, Miss Alice C., Peabody Museum, Cambridge, Mass. (29). 1883. **H**

FLETCHER, ANDREW, 339 West 77th St., New York, N. Y. (50).
*Fletcher, James, Ph. D., Dominion Entomologist, Experimental Farm, Ottawa, Can. (31). 1883. **F**
*Fletcher, Robert, M. D., Army Medical Museum, Washington, D. C. (29). 1881. **F H**
Fletcher, Robert, Ph. D., Director of Thayer School of Civil Engineering, Hanover, N. H. (51). **D**
Flickinger, Junius R., Sc. D., Principal of Normal School, Pres., Pa. Educational Assn., Normal School, Lock Haven, Pa. (51).
*Flint, Albert S., Washburn Observatory, Madison, Wis. (30). 1887. **A**
*Flint, Austin, M. D., LL.D., Professor of Physiology, Cornell University Medical College, New York, N. Y. (50). 1901. **F K**
*Flint, James M., Surgeon U. S. N., The Portland, Washington, D. C. (28). 1882. **F**
Focke, Theodore M., Case School of Applied Science, Cleveland, Ohio. (44). **A B**
*Foley, Prof. Arthur Lee, Indiana University, Bloomington, Ind. (46). 1900. **B**
Folkmar, Daniel, D. S. S., D. U. Paris, care. Mrs Geo. Cuddeback, 5 Glen Etta St., Janesville, Wis. (46). **H**
Folsom, David M., Stanford, University, Cal. (51). **E**
Foote, James S., M. D., Creighton Medical College, Omaha, Neb. (50). **F K**
Foote, Warren M., 311 N. 33d St., Philadelphia, Pa. (50). **C**
Forbes, Robert H., Professor of Chemistry, University of Arizona, Tucson, Arizona. (50). **C**
Ford, James B., 4 East 43d St., New York, N. Y. (49).
Fort, I. A., U. P. Land Agent, North Platte, Neb. (51).
Foster, Macomb G., P. O. Box 1120, New York, N. Y. (49).
Foster, William, Newburgh, N. Y. (50). **I**
Fowler, Edwin H., U. S. C. and G. Survey, Washington, D. C. (47).
Fox, Charles James, M. D., Lock Box A, Willimantic, Conn. (51). **K**
*Fox, Oscar C., U. S. Patent Office, Washington, D. C. (36). 1891. **A B D**
Fox, William, Asst. Professor Physics, College of the City of New York, New York, N. Y. (50). **B D**
Fraenkel, Joseph, M. D., 46 East 75th St., New York, N. Y. (50). **K**
Francis, Charles Kenworthy, Ph. B., Adjunct Prof. of Chemistry, Ga. School of Technology, Atlanta, Ga. (50). **C**
Francisco, M. Judson, 49 Merchants' Row, Rutland, Vt. (50). **I**
*Frankforter, George B., University of Minnesota, Minneapolis, Minn. (43). 1901. **C**
Frankland, Frederick W., 346 Broadway, New York, N. Y. (50).
*Franklin, Mrs. C. Ladd, 516 Park Ave., Baltimore, Md. (47). 1899. **H**

*Franklin, Edward Curtis, Ph. D., Kansas State Univ., Lawrence, Kan. (47). 1900. B G

*Franklin, William S., Lehigh University, So. Bethlehem, Pa. (36). 1892. B

*FRAZER, DR. PERSIFOR, Drexel Building, Room 1042, Philadelphia, Pa. (24). 1879. C E

*Frazier, Prof. B. W., Lehigh University, So. Bethlehem, Pa. (24). 1882. C E

*Frear, William, State College, Pa. (33). 1886. C

Frederick, Charles Warnock, U. S. Naval Observatory, Washington, D. C. (50). A B C

Freeborn, George C., M. D., 215 West 70th St., New York, N. Y. (50). K

*Freedman, William Horatio, Professor of Electrical Engineering, University of Vermont, Burlington, Vt. (50). 1901. B D

Freeman, Charles, Ph. D., Director of Clark Chemical Laboratory, Westminster College, New Wilmington, Pa. (50). C

Freeman, Prof. T. J. A., St. John's College, Fordham, New York, N. Y. (33). B C

*Freer, Prof. Paul C., Ann Arbor, Mich. (39). 1891. C

Freley, Jasper Warren, Wells College, Aurora, N. Y. (45). B E

*French, Prof. Thomas, Jr., 114 N. Ingalls St., Ann Arbor, Mich. (30). 1883. B

Fretz, Augustus Henry, Doylestown, Pa. (50).

Fretz, John Edgar, M. D., 112 North 3d St., Easton, Pa. (46). F G H

Frick, Prof. John H., Central Wesleyan College, Warrenton, Mo. (27). A B E F

Friedenwald, Harry, M. D., Associate Prof. of Ophthalmology and Otology, College of Phys. and Surgs., 1029 Madison Ave., Baltimore, Md. (51). K

Friend, Samuel Henry, M. D., 141 Wisconsin St., Milwaukee, Wis. (51). K

*Fries, Dr. Harold H., 92 Reade St., New York, N. Y. (40). 1898. C

FRISBIE J. F., M. D., Box 455, Newton, Mass. (29). E H

*Frisby, Prof. Edgar, U. S. Naval Observatory, Washington, D. C. (28). 1880. A

*Frost, Edwin Brant, Yerkes Observatory, Williams Bay, Wis. (38). 1890. A B

Frost, George H., C. E., Editor of "Engineering News," 220 Broadway, New York, N. Y. (50). B D

Frost, Miss Lucy Ames, 35 Robinson St., Dorchester, Mass. (47). B

Frost, William Dodge, Instructor in Bacteriology, University of Wisconsin, Madison, Wis. (50). F

FROTHINGHAM, MRS. FREDERICK, 152 Pautucket St., Lowell, Mass. (31). A F I

Fuller, Arthur Levens, Brunner, Kans. (50). C

Fuller, Charles Gordon, M. D., Reliance Building, Chicago, Ill. (35). **F**

Fuller, George W., 100 William St., New York, N. Y. (50).

*Fuller, Prof. Homer T., President Drury College, Springfield, Mo. (35). 1891. **C E**

*Fuller, Melville W., LL.D., Chief Justice U. S. Supreme Court, 1800 Massachusetts Ave., Washington, D. C. (40). 1901. **I**

FULLER, MYRON L., Assistant Geologist, U. S. Geological Survey, Washington, D. C. (50). **E**

Fullmer, Edward Lawrence, Prof. of Natural Science, Dakota Univ., Mitchell, S. D. (50). **F**

*Fulton, Robert B., Chancellor Univ. of Mississippi, University, Miss. (21). 1887. **A B**

Fulton, Weston Miller, Instructor in Meteorology, University of Tennessee, Knoxville, Tenn. (50). **B**

Furlow, Floyd Charles, Professor of Experimental Engineering, Georgia School of Technology, Atlanta, Ga. (50). **D**

*Furness, Miss Caroline E., Vassar College Observatory, Poughkeepsie, N. Y. (47). 1899. **A**

Gable, George D, Ph. D., Parsons College, Fairfield, Iowa. (40). **A B.**

*Gage, Prof. Simon Henry, Cornell University, Ithaca, N. Y. (28). 1881. **F**

*Gage, Mrs. Susanna Phelps, Ithaca, N. Y. (48). 1900. **F**

Gage-Day, Mary, M. D., 207 Wall St., Kingston-on-Hudson, N. Y. (51). **K**

Gager, C. Stuart, Professor of Biologic Science, New York State Normal College, Albany, N. Y. (50). **F G**

Gahagan, William L., M. D., 141 Broadway, New York, N. Y. (51). **K**

Gaither, George R., ex-Attorney General of Maryland, 1310 Continental Bldg., Baltimore, Md. (50). **I**

*Galbraith, Prof. John, School of Practical Science, Toronto, Can. (38). 1889. **D**

*Galloway, B. T., U. S. Dept. Agriculture, Washington, D. C. (37). 1890. **G**

*Galloway, Thomas Walton, Professor of Biology, Missouri Valley College, Marshall, Mo. (45). 1901. **F G**

*Ganong, Wm. F., Professor of Botany, Smith College, Northampton, Mass. (49). 1900. **G**

Gantt, Henry Lawrence, Consulting Enigneer, care American Locomotive Co., Schenectady, N. Y. (51). **D I**

Garcin, Ramon D., M. D., 2618 E. Broad St., Richmond, Va. (51). **K**

Gardiner, Charles Fox, M. D., 818 N. Cascade Ave., Colorado Springs, Colo. (51). **K**

Gardiner, Edward G., Ph. D., 131 Mt. Vernon St., Boston, Mass. (51).
Gardiner, Rev. Frederic, Jr., Yeates School, Lancaster, Pa. (47). **F H**
Gardner, Rev. Corliss B., Ripley, N. Y. (29). **A B I**
Gardner, Geo. Clinton, 416 Beach St., N., Richmond Hill, New York, N. Y. (50).
Garland, Jos. E., M. D., 17 Pleasant St., Gloucester, Mass. (51). **K**
Garnier, Madame Laure Russell, The Castle, Tarrytown, N. Y. (40).
Garrett, Albert O., Fort Scott, Kansas. (50). **G**
Garriott, Edward B., U. S. Weather Bureau, Washington, D. C. (49).
Garver, John A., 44 Wall St., New York, N. Y. (49).
Garvin, John B., Instructor in Chemistry, High School District No. 1. Denver, Colo. (50). **C**
Gates, Fanny Cook, Instructor in Physics, Woman's College, Baltimore, Md. (50). **A B**
Gault, Franklin B., 602 N. I St., Tacoma, Wash. (43).
Gause, Fred Taylor, Manager Standard Oil Co. of New York, T. and B. Dept. Yokohama, Japan. (40).
Gauss, Robert, Editor "Denver Republican," Denver, Colo. (50). **I**
Geisler, Joseph F., New York, Mercantile Exchange, New York, N. Y. (50).
*GENTH, FRED. A., 103 N. Front St., Philadelphia, Pa. (32). 1900. **C E.**
*Genthe, Karl Wilhelm, Ph. D., Instructor in Zoology, Trinity College, Hartford, Conn. (50). 1901. **F**
*Germann, George B., 90 Norman Ave., Brooklyn, N. Y. (49). 1901. **A**
Getman, Frederick H., Johns Hopkins University, Baltimore, Md. (45). **B**
*Gibbs, Prof. J. Willard, New Haven, Conn. (33). 1885. **B**
*GIBBS, PROF. WOLCOTT, Newport, R. I. (1). 1896. **B C**
*Gies, William J., College of Physicians and Surgeons, 437 West 59th St., New York, N. Y. (49). 1901. **C**
Giffin, Frank Albee, 419 W. 118th St., New York, N. Y. (50). **A B**
Gifford, Harold, M. D., 405 Karbach Block, Omaha, Neb. (51). **K**
Gifford, John Clayton, Asst. Professor of Forestry, New York State College of Forestry, Ithaca, N. Y. (50). **G**
Gilbert, Charles B., Educator, 106 Brunswick St., Rochester, N. Y. (50). **I**
*GILBERT, G. K., U. S. Geol. Survey, Washington, D. C. (18). 1874. **E**
*Gill, Adam Capen, Cornell University, Ithaca, N. Y. (38). 1894. **E**
*Gill, Augustus Herman, Mass. Institute Technology, Boston, Mass. (44). 1896. **C**
*Gill, Theodore Nicholas, M. D., Cosmos Club, Washington, D. C. (17). 1874. **F**

*Gillette, Clarence P., Professor of Zoology, Agricultural College, Fort Collins, Colo. (50). 1901. **F**

Gilman, Charles Edward, Stanford University, Cal. (51). **E**

*Gilman, Daniel C., Johns Hopkins University, Baltimore, Md. (10). 1875. **E H**

Girty, George H., Ph. D., U. S. Geol. Survey, Washington, D. C. (48).

Glaser, C., Analytical and Consulting Chemist, 21 S. Gay St., Baltimore, Md. (49).

Gleason, H. Allan, Asst. in Botany, Univ. of Illinois, Champaign, Ill. (50). **G**

Gleason, W. Stanton, M. D., 143 Grand St., Newburgh, N. Y. (50). **F K**

Glenn, L. C., Ph. D., Professor of Geology, Vanderbilt University, Nashville, Tenn. (50). **E**

*Glenn, William, 1348 Block St., Baltimore, Md. (33). 1893. **C**

GLENNY, WILLIAM H., Buffalo, N. Y. (25).

Godfrey, Chas. C., M. D., 753 Lafayette St., Bridgeport, Conn. (51). **K**

Godkin, Mrs. E. L., 36 W. 10th St., New York, N. Y. (49).

*Goessmann, Prof. C. A., Mass. Agric. College, Amherst, Mass. (18). 1875. **C**

Gold, Rev. Dr. James Douglas, Covington, Ohio. (50). **I**

*Gold, Theodore S., West Cornwall, Conn. (4). 1887. **B C**

Golden, Harry E., Civil Engineer, Mann Building, Utica, N. Y. (51). **D**

*Golden, Miss Katherine E., Purdue University, Lafayette, Ind. (42). 1897. **G**

Goldsborough, John Byron, Croton-on-Hudson, N. Y. (51).

*Goldschmidt, S. A., Ph. D., 43 Sedgwick St., Brooklyn, N. Y. (24). 1880. **B C E**

*Goldsmith, Edw., 658 N. 10th St., Philadelphia, Pa. (29). 1892. **B C**

Goldthwaite, Miss Nellie Esther, Mount Holyoke College, So. Hadley, Mass. (47). **C**

Gomberg, Moses, Sc. D., 1101 E. University Ave., Ann Arbor, Mich. (51). **C**

*Gooch, Frank A., Yale University, New Naven, Conn. (25). 1880. **C**

*Goodale, Prof. George Lincoln, Botanic Gardens, Cambridge, Mass. (18). 1875. **G**

Goodale, Joseph Lincoln, M. D., 397 Beacon St., Boston, Mass. (50). **F K**

Goodnow, Henry R., 95 Riverside Drive, New York, N. Y. (32). **B**

*Goodspeed, Arthur Willis, Ph. D., Dept. Physics, University of Pennsylvania, Philadelphia, Pa. (47). 1898. **A B**

Goodwin, Elmer Forrest, Principal and Prof. Physics and Chemistry Concord Branch, West Virginia State Normal School, Athens, W. Va. (50). **B C**

*Goodwin, Harry M., Professor of Physical Chemistry, Mass. Institute Technology, Boston, Mass. (47). 1901. **B**

Goodyear, William H., Museum of Brooklyn Institute of Arts and Sciences, Eastern Parkway, Broklyn, N.Y. (43). **H**

Gordon, Clarence McC., Ph. D., Centre College, Danville, Ky. (48). **A B C**

Gordon, Gustavus Ede, Scientific Director, Walker Gordon Laboratory Co., 1120 Conn. Ave., N. W., Washington, D. C. (51). **F**

Gordon, Reginald, 315 W. 71st St., New York, N. Y. (50).

Gordon, Robert H., Cumberland, Md., (48). **E F**

Gore, J. W., Professor Physics, Univ. of N. C., Chapel Hill, N. C. (51). **B**

*Goss, Prof. Wm. F. M., Lafayette, Ind. (39). 1896.

Gossard, Harry Arthur, Professor of Entomology, Florida Agricultural College, Lake City, Fla. (51). **F**

Goucher, John Franklin, President of The Woman's College, Baltimore, Md. (50).

Gould, George Milbry, M. D., 1631 Locust St., Philadelphia, Pa. (51). **K**

Gouldy, Miss Jennie A., Newburgh, N. Y. (50). **I**

Grabill, H. P., 1004 Enas Ave., Des Moines, Iowa. (50). **C**

Graef, Edw. L., 58 Court St., Brooklyn, N. Y. (28). **F**

Graham, Douglas, M. D., 74 Boylston St., Boston, Mass. (51). **K**

Graham, James Chandler, Chemist, Phillips Academy, Andover, Mass. (50). **C**

Graham, Robert Dunn, 52 Broadway, New York, N. Y. (50).

Granbery, Julian Hastings, Engineer and Electrician, 561 Walnut St., Elizabeth, N. J. (50). **D**

Granger, Arthur O., Cartersville, Ga. (50). **A B**

Grant, U. S., Ph. D., Professor of Geology, Northwestern University, Evanston, Ill. (50). **G**

Grant, Willis Howard, 744 South Ave., Wilkensburg, Pa. (51). **C G**

Granville, William Anthony, Ph. D., Instructor in Mathematics, Yale University, New Haven, Conn. (50). **A**

*Gratacap, L. P., 77th St. and 8th Ave., New York, N. Y. (27). 1884. **C E F**

*Gray, Prof. Thomas, Terre Haute, Ind. (38). 1889. **D**

Greef, Ernest F., 37 W. 88th St., New York, N. Y. (49).

*Green, Arthur L., Purdue University, Lafayette, Ind. (33). 1888. **C.**

Green, Bernard Richardson, Civil Engineer, Supt. of Congressional Library Building, 1738 N St., N.W., Washington, D. C. (51). **B D**

Greene, Chas. Lyman, M. D., 150 Lowry Arcade, St. Paul, Minn. (51). **K**

*Greene, Charles Wilson, Ph. D., Professor of Physiology, State University of Missouri, Columbia, Mo. (50). 1901. **F K**

Green, Edgar Moore, M. D., Easton, Pa. (36). **C G H**
Greene, G. K., 127 W. Market St., New Albany, Ind. (38).
Green, Horace, care "Sunday Journal," 15 Spruce St., New York, N. Y. (50).
Green, Miss Isabella M., 111 Union Place, Akron, Ohio. (47).
Greene, J. Evarts, 98 Lincoln St., Worcester, Mass. (47). **I**
Greene, Jacob L., President Mut. Life Insurance Co., Hartford, Conn. (23).
Green, Milbrey, M. D., 567 Columbus Ave., Boston, Mass. (29).
Greenalch, Wallace, Deputy City Engineer, Albany, N. Y. (51). **D**
Greenleaf, Robert Willard, M. D., 561 Boylston St., Boston, Mass. (47).
*Greenman, Jesse M., 875 Doan St., Cleveland, Ohio. (47). 1899. **G**
Greenough, Charles Pelham, Attorney at law, 39 Court St., Boston, Mass. (50). **I**
Greenough, John, 31 W. 35th St., New York, N. Y. (49).
Gregg, William H., M. D., Port Chester, N. Y. (49).
Gregory, Miss Emily Ray, Ph. D., Professor of Biology, Wells College, Aurora, N. Y. (50). **F**
Gregory, Herbert E., Yale University, New Haven, Conn. (50). **E**
Griffin, Gen. Eugene, First Vice-President, General Electric Co., 44 Broad St., New York, N. Y. (50). **D**
Griffith, C. J., Instructor in Dairying, Agricultural College, Fort Collins, Colo. (50). **F**
Griffith, Daniel J., 21 W. 56th St., New York, N. Y. (49).
Griffith, Herbert Eugene, Professor of Chemistry, Knox College, Galesburg, Ill. (50). **C**
Griffith, John Howell, Professor of Mathematics and Civil Engineering, Clarkson School of Technology, Potsdam, N. Y. (50). **D**
Griffith, Miss Mary Dechert, 3914 Walnut St., Philadelphia, Pa. (47). **B C**
Griffith, W. W., Instructor in Physics, State University, Columbia, Mo. (50). **B**
Griffiths, David, Div. Agrostology, U. S. Dept. Agriculture, Washington D. C. (49). **G**
*Grimes, James Stanley, 1422 Wesley Ave., Evanston, Ill. (17). 1874. **E H**
Grimm, Carl Robert, Bridge and Structural Engineer, 103 N. Main St., Mt. Vernon, Ohio. (51). **D**
*Grindley, Dr. Harry Sands, Associate Professor of Chemistry, University of Illinois, Urbana, Ill. (46). 1898. **C**
*Grinnell, George Bird, 346 Broadway, New. York, N. Y. (25). 1885. **E F**
Griswold, Clifford S., Head of Dept. of Physics, Groton School, Groton, Mass. (50). **B**

*Griswold, Leon Stacy, 238 Boston St., Dorchester, Mass. (38). 1893. **E**

Grosskopf, Ernest C., M. D., Medical Superintendent Milwaukee County Hospital, Wauwatosa, Wis. (51). **K**

Grosvenor, Gilbert H., "National Geographic Magazine," Corcoran Bldg., Washington, D. C. (48). **E I**

*Grout, Abel J., Boys' High School, Brooklyn, N. Y. (47). 1899. **G**

Grover, Frederick Orville, Professor of Botany, Oberlin College, Oberlin, Ohio. (50) **G**

*Gruener, Hippolyte, Adelbert College, Cleveland, Ohio. (44). 1898.

*Gulliver, F. P., St. Marks School, Southboro, Mass. (40). 1900 **E**

Gummere, Henry Volkmar, Professor of Mathematics, Physics and Astronomy, Ursinius College, Collegeville, Pa. (51). **A B**

Guth, Morris S., M. D., Supt. State Hospital for the Insane, Warren, Pa. (51). **K**

*Guthe, Karl E., Ph. D., 904 S. State St., Ann Arbor, Mich. (45). 1897. **D**

Guthrie, William Alvis, M. D., Franklin, Ky. (51). **K**

Guthrie, William E., M. D., Bloomington, Ill. (51). **K**

Gutiérrez, Manuel R., Professor of Physics, Normal School, Calle de las Victimas num. 1, Jalapa, Vera Cruz, Mexico. (50). **B**

*Hagar, Stansbury, 179 Kingston Ave., Brooklyn, N. Y. (43). 1899.

*Hague, Arnold, U. S. Geol. Survey, Washington, D. C. (26). 1879. **E**

Hague, James D., 18 Wall St., New York, N. Y. (50).

Haight, Stephen S., C. E., 2085 Daly Ave., West Farms, New York, N. Y. (31). **D**

*Haines, Reuben, Haines and Chew Sts., Germantown, Philadelphia, Pa. (27). 1889. **B C**

*Hale, Albert C., Ph. D., 352A Hancock St., Brooklyn, N. Y. (29). 1886. **B C**

Hale, George D., 1059 Lake Ave., Rochester, N. Y. (41).

*Hale, George E., Yerkes Observatory, Williams Bay, Wis. (37). 1891. **A B C**

*Hale, William H., Ph. D., 40 First Place, Brooklyn, N. Y. (19). 1874. **A B C E F H I**

*Hall, Asaph, U. S. N., South Norwalk, Conn. (25). 1877. **A**

*Hall, Asaph, Jr., University of Michigan, Ann Arbor, Mich. (38). 1890. **A**

Hall, Charles M., Vice-President Pittsburg Reduction Co., Niagara Falls, N. Y. (50). **C**

*Hall, C. W., Dean College of Engineering Met. and Mechan. Arts, University of Minnesota, Minneapolis, Minn. (28). 1883. **D E**

Hall, Edwin Bradford, Wellsville, N. Y. (50).

*Hall, Edwin H., 5 Avon St., Cambridge, Mass. (29). 1881. **B**

Hall, Fred. C., Jr., M. D., Cuba, Kansas, (51). **K**

Hall, James P., 6 Poplar St., Brooklyn, N. Y. (40). **A B**

Hall, Joseph Underwood, M. D., 216 Autumn St., San José, Cal. (51). **K**

Hall, Lyman, President of Georgia School of Technology, Atlanta, Ga. (50).

*Hall, Prof. Lyman B., Haverford College, Haverford, Pa. (31). 1884. **C**

Hall, Robert William, 2 Hillhouse Ave., New Haven, Conn. (50). **F**

Hall, William Bonnell, M. D., Professor of Materia Medica and Physiology, University of the South, Sewanee, Tenn. (51). **K**

Hall, William Shafer, Professor of Mining and Graphics, Lafayette College, Easton, Pa. (50). **E**

Hallack, H. Tuthill, M. D., Alcott, Colo. (51). **K**

Halley, Robert Burns, Professor of Physics and Chemistry, Sam Houston Normal Institute, Huntsville, Texas. (50). **B C**

*Hallock, Albert P., Ph. D., 440 First Ave., New York, N. Y. (31). 1896. **C**

Hallock, Frank Kirkwood, M. D., Cromwell, Conn. (50). **K**

*Hallock, Dr. William, Columbia University, New York, N. Y. (40). 1893. **B E**

*Hallowell, Prof. Susan M., Wellesley College, Wellesley, Mass. (33). 1890. **G**

*Halsted, Byron D., Rutgers College, New Brunswick, N. J. (29). 1883. **G**

*Halsted, George Bruce, M. D., 2407 Guadalupe St., Austin, Texas. (43). 1896.

Halsted, William Stewart, 1201 Eutaw Place, Baltimore, Md. (50).

Ham, Judson B., Teacher Natural Science, Vt. State Normal School, Johnson, Vermont. (50). **F G**

*Hamaker, John Irvin, Professor of Geology and Biology, Trinity College, Durham, N. C. (50). 1901. **E F**

*Hambach, Dr. G., 1319 Lami St., St. Louis, Mo. (26). 1891. **E F**

Hammatt, Clarence Sherman, Electrical and Mechanical Engineer, Jacksonville, Fla. (50). **D**

Hammel, Wm. C. A., Department of Physics, State Normal School, Baltimore, Md. (50). **B F**

Hammond, Mrs. Eliza F., 645 Jefferson Ave., Detroit, Mich. (46).

Hammond, George W., Hotel Hamilton, 260 Clarendon St., Boston, Mass. (47).

*Hammond, John Hays, Mining Engineer, Denver, Colo. (50). 1901. **D E**

Hammond, Mrs. John Hays, Denver, Colo. (50). **H**

*Hanaman, C. E., Troy, N. Y. (19). 1883. **F**

Hance, Anthony M., 2024 DeLancey Place, Philadelphia, Pa. (51). **C**

Hancock, James Cole, M. D., 43 Cambridge Place, Brooklyn, N. Y. (51). **K**

Hard, Jas. M. B., Cordobanes 16, City of Mexico, Mexico. (50). **C**

*Harding, Everhart Percy, Instructor in Chemistry, University of Minnesota, Minneapolis, Minn. (50). 1901. **C**

Harding, Harry A., State Experiment Station, Geneva, N. Y. (48). **G**

Hardy, Edward R., 31 Allen St., Boston, Mass. (49). **I**

*Hargitt, Prof. Charles W., Syracuse University, Syracuse, N. Y. (38). 1891. **F**

*HARKNESS, WILLIAM, U. S. Naval Observatory, Washington, D. C. (26). 1878. **A B C D**

Harmon, Miss A. Maria, 171 McLaren St., Ottawa, Can. (31). **F H**

Harmon, Mrs. Israel, Springfield, Mass. (43).

Harnly, Henry Jacob, Ph. D., Professor of Biology, McPherson College, McPherson, Kan. (50). **F G**

*Harper, Charles A., Ph. D., 2139 Gilbert Ave., Cincinnati, Ohio. (40). 1899. **C**

*Harper, Henry Winston, M. D., The University of Texas, Austin, Texas. (45). 1899. **C**

Harper, R. H., M. D., Afton, Indian Ter. (51). **F K**

Harrah, C. J., P. O. Box 1606, Philadelphia, Pa. (48). **H**

*Harris, Abram Winegardner, Sc. D., Port Deposit, Md. (40). 1895. **C**

Harris, Mrs. Carolyn W., 125 St. Marks Ave., Brooklyn, N. Y. (50). **G**

*Harris, Prof. E. P., Amherst College, Amherst, Mass. (44). 1896.

Harris, Frederick S., Monticello, Kansas. (50). **E**

HARRIS, J. CAMPBELL, 119 So. 16th St., Philadelphia, Pa. (51).

*Harris, Rollin Arthur, U. S. C. and G. Survey, Washington, D. C. (47). 1899. **A**

*Harris, Uriah R., Commander, U. S. N., Room 225, Custom House, St. Louis, Mo. (34). 1886. **A**

Harrison, Judge Lynde, 52 Hillhouse Ave., New Haven, Conn. (50). **I**

*Harrison, Robert Henry, M. D., Columbus, Texas. (50). **F K**

Hart, Charles A., Assistant to State Entomologist, Univ. of Illinois, Urbana, Ill. (51). **F**

*Hart, Edw., Ph. D., Lafayette College, Easton, Pa. (33). 1885. **C**

Hart, James Norris, Professor of Mathematics and Astronomy, Univ. of Maine, Orono, Maine. (51). **A**

Hart, Miss Mary Elizabeth, Prospect Hill, Greenfield, Mass. (51). **G**

Hart, Rev. Prof. Samuel, Berkeley Divinity School, Middletown, Conn. (22). **A**

Hartley, Chas. P., Assistant in Plant Breeding, Bureau of Plant Industry, Dept. Agriculture, Washington, D. C. (51). **G**

Hartley, Frank, Principal of Allegheny County Academy, Cumberland, Md. (51). **E G**

Hartness, James, President of Jones and Lamson Machine Co., Springfield, Vt. (51). **D**

Hartz, J. D. Aug., College Point, N. Y. (43).

Hartzell, Prof. J. Culver, Illinois Wesleyan Univ., Bloomington, Ill. (49). **E**

Harvey, Wm. Stocker, 119 So. 4th St., Philadelphia, Pa. (47).

Hasie, Montague S., C. E., Manager of American Bridge Co., of New York, Dallas, Texas. (51). **D**

*Haskell, Eugene E., Campeau Building, Detroit, Mich. (39). 1896. **A B D**

Hasslacher, Jacob, 100 William St., New York, N. Y. (50).

*HASTINGS, C. S., Sheffield Scientific School, Yale University, New Haven, Conn. (25). 1878. **B**

Hastings, Edwin George, R. R. No. 2, Ashtabula, Ohio. (50). **F**

Hatcher, John Bell, Carnegie Museum, Pittsburg, Pa. (50). **E F**

Haupt, Herman, C. E., The Concord, Washington, D. C. (51). **D**

Haupt, Gen. Lewis Muhlenberg, C. E., Consulting Engineer, 107 North 35th St., Philadelphia, Pa. (51). **D**

Havemeyer, W. F., 32 Nassau St., New York, N. Y. (50).

Hawkins, J. Dawson, Colorado Springs, Colo. (50). **C D**

*Hay, Prof. Oliver Perry, Amer. Mus. Nat. History, Central Park, New York, N. Y. (49). 1901. **F**

Hay, Prof. William P., 1316 Wallach Place, N.W., Washington, D. C. (49).

Hayes, George Washington, C. E., Lebanon, Pa. (51). **C D**

Hayes, Joel Addison, Banker, Colorado Springs, Colo. (51).

Hayes, Noah, M. D., Seneca, Nemaha Co., Kansas. (51). **K**

*Hayford, John F., C. E., U. S. C. and G. Survey, Washington, D. C. (46). 1898. **A B D**

Haynes, Prof. Arthur E., College of Engineering, University of Minnesota, Minneapolis, Minn. (45).

*Haynes, Prof. Henry W., 239 Beacon St., Boston, Mass. (28). 1884. **H**

Haynes, Miss Julia Anna, Emma Willard School, Troy, N. Y. (47). **F G**

Hays, B. Frank, Bensonhurst, N. Y. (49).

Hays, Charles I., care North Side High School, Denver, Colo. (50). **C G**

*Hays, Willet M., Professor of Agriculture, University of Minnesota, St. Anthony Park, Minn. (45). 1901. **G I**

Haywood, Prof. John, Otterbein University, Westerville, Ohio. (30). **A B**

Hazard, Daniel L., U. S. C. and G. Survey, Washington, D. C. (48).

Hazard, R. G., Peace Dale, R. I. (50).

Hazen, Tracy Elliott, Director Fairbanks Museum, Saint Johnsbury, Vermont. (50). **G**

Head, W. R., 5467 Jefferson Ave., Hyde Park, Chicago, Ill. (38). **F**

Heald, Fred. DeForest, Ph. D., Professor of Biology, Parsons College, Fairfield, Iowa. (50). **F**

Heath, Harry E., Chief Enigneer, The Eddy Electric Mfg. Co., Windsor, Conn. (50). **D**

Hebden, Edwin, Principal of Group A, Public Schools, 730 Colorado Ave., Baltimore, Md. (50). **E**

Heck, Chas. McGee, Raleigh, N. C. (51). **B**

Hedgcock, George Grant, University of Nebraska, Lincoln, Neb. (50). **G**

Hedge, Frederic H., Public Library, Lawrence, Mass. (28). **F H**

*Hedrick, Henry B., Nautical Almanac Office, U. S. Naval Observatory, Washington, D. C. (40). 1896. **A**

Heisler, Chas. L., M. E., Mgr. and Engineer, Heisler Pumping Engine Co., 909 W. 8th St., Erie, Pa. (51). **D**

Heller, Napoleon B., Professor of Mathematics and Astronomy, Fort Worth University, Fort Worth, Texas. (50). **A**

Hellick, Chauncey Graham, C. E., Ph. D., 203 Washington St., Chicago, Ill. (50). **D**

Hemmeter, John C., M. D., Prof. in Medical Department Univ. of Maryland, 1734 Linden Ave., Baltimore, Md. (51). **K**

Henderson, Joseph J., 689 10th St., Brooklyn, N. Y. (51).

Henderson, Junius, County Judge, 1933 13th St., Boulder, Colo. (50).

*Henderson, William Edward, Ph. D., Ohio State University, Columbus, Ohio. (50). 1901. **C**

Hendricks, Henry H., 49 Cliff St., New York, N. Y. (30).

Hennen, Ray Vernon, C. E., care Carter Oil Co., Sistersville, W. Va. (50). **D**

Henrich, Carl, Mining Engineer, Union Copper Mining Co., Gold Hill, N. C. (50). **A E I**

*Henry, Alfred J., U. S. Weather Bureau, Washington, D. C. (49). 1901. **B**

Henry, Charles C., M. D., 56 Clark St., Brooklyn, N. Y. (43).

Hensel, Samuel Theodore, 801 E. Colfax Ave., Denver, Colo. (50). **C G.**

Henzey, Sam'l Alexander, Pres. of Raleigh and Western Railway Co., 52 Broadway, New York, N. Y. (51).

Herbert, Arthur P., Engineer and Supt. Colima Division, Compania Constructora Nacional Mexicana, Colima, Colima, Mex. (51). **D**

Hering, Daniel Webster, Professor of Physics, New York University, University Heights, New York, N. Y. (50). **B D**

*Hering, Rudolph, 170 Broadway, New York, N. Y. (33). 1885. **D E I**

Herndon, John Henry, Tyler, Tex. (51). **C E**

Herr, Hiero B., Civil and Mining Engineer, 1246 Marquette Bldg., Chicago, Ill. (50). **E**

*Herrick, C. Judson, Dennison University, Granville, Ohio. (49). 1901. **F**

Herrick, Glenn W., Professor of Biology, A. and M. College, Agricultural College, Miss. (50). **F**

HERRMAN, MRS. ESTHER, 59 West 56th St., New York, N. Y.

Herrmann, Richard, Sec'y Iowa Institute of Science and Arts, Dubuque, Iowa. (50). **C E**

Hersom, Jane Loid, M. D., 106 Pine St., Portland, Me. (51). **K**

Herter, Christian A., M. D., 819 Madison Ave., New York, N. Y. (50). **K**

Herthel, Adolph, 1739 Waverly Place, St. Louis, Mo. (50). **I**

*Herty, Charles Holmes, Ph. D., Ocilla, Ga. (42). 1895. **C**

*Hervey, Rev. A. B., Bath, Me. (22). 1879. **F**

Herzog, Felix Benedict, Ph. D., President Herzog Teleseme Co., 51 West 24th St., New York, N. Y. (50). **D**

Hesse, Conrad E., U. S. Weather Bureau, Washington, D. C. (50). **A**

Heston, John W., President South Dakota Agricultural College, Brookings, S. D. (50). **I**

Hewett, Edgar L., President New Mexico Normal University, East Las Vegas, N. M. (50). **H**

Hewitt, Hon. Abram S., 9 Lexington Ave., New York, N. Y. (49).

Hewitt, Charles N., M. D., LL.D., Secretary State Board of Health, Red Wing, Minn. (50). **K**

HEXAMER, C. JOHN, C. E., 419 Walnut St., Philadelphia, Pa. (33). **B C**

Heyer, Wm. D., 523 South Broad St., Elizabeth, N. J. (33). **B D**

Hice, Richard R., Beaver, Pa. (51). **E**

Higdon, John Clark, 605 Union Trust Bldg., St. Louis, Mo. (50). **B D I**

Higgins, F. W., M. D., 20 Court St., Cortland, N. Y. (51). **K**

Higginson, James J., 16 E. 41st St., New York, N. Y. (49).

Higginson, John A., 260 Clarendon St., Boston, Mass. (50).

Higley, Hon. Warren, 68 West 40th St., New York, N. Y. (43).

Hildreth, John L., 14 Garden St., Cambridge, Mass. (50).

*Hilgard, Prof. E. W., Univ. of California, Berkeley, Cal. (11). 1874. **B C E**

Hill, Bruce V., Grinnell, Iowa. (48). **B**

Hill, Ebenezer, Treasurer, Norwalk Iron Works, South Norwalk, Conn. (50). **D**

*Hill, George A., U. S. Naval Observatory, Washington, D. C. (47). 1900. **A**

Hill, Gershom Hyde, Supt. State Hospital for the Insane, Independence, Iowa. (51). **K**

*Hill, John Edward, Prof. of Civil Engineering, Brown University, Providence, R. I. (44). 1897. **D**

*Hill, Robert Thomas, U. S. Geol. Survey, Washington, D. C. (36). 1889. **E**

Hillig, Frederick, J., S. J., Professor of Sciences, Canisius College, Buffalo, N. Y. (50).

Hillkowitz, Wm., M. D., 704 Race St., Cincinnati, Ohio. (50). **C F I K**

*Hillyer, Homer W., Ph. D., Chemical Laboratory, Univ. of Wisconsin, Madison, Wis. (42). 1896. **C**

Hilton, William A., 435 Penn Ave., Waverly, N. Y. (49). **F**

*Himes, Prof. Charles F., Carlisle, Pa. (29). 1882. **B C**

Hine, James S., Ohio State Univ., Columbus, Ohio. (48). **F**

*Hinrichs, Dr. Gustavus, 4106 Shenandoah Ave., St. Louis, Mo. (17). 1874. **B C**

Hinton, John H., M. D., 41 W. 32d St., New York, N. Y. (29). **F H**

Hirschberg, Michael H., Judge of Supreme Court, State of New York, Newburgh, N. Y. (50). **I**

Hirschfelder, Jos. Oakland, M. D., Professor of Cl. Med. Cooper Medical College, 1392 Geary St., San Francisco, Cal. (51). **K**

Hiss, P. Hanson, M. D., 28 Washington Square, N., New York, N. Y. (49). **K**

*Hitchcock, Albert Spear, Div. Agrostology, U. S. Dept. Agriculture, Washington, D. C. (39). 1892. **G**

Hitchcock, Miss Caroline Judson, Teacher in High School, Meriden, Conn. (50). **B E**

*Hitchcock, Charles H., Hanover, N. H. (11). 1874. **E**

Hitchcock, Embury A., 380 W. Eighth Ave., Columbus, Ohio. (48). **D**

Hitchcock, Miss Fanny R. M., 4038 Walnut St., Philadelphia, Pa. (35). **F**

*Hitchcock, Frank H., Chief Section Foreign Markets, U. S. Dept. Agriculture, Washington, D. C. (49). 1901. **I**

*Hitchcock, Romyn, Room 1804, 20 Broad St., New York, N. Y. (47). 1898. **B C**

Hoadley, George A., Swarthmore College, Swarthmore, Pa. (40). 1900.

Hoagland, Henry Williamson, M. D., 327 N. Nevada Ave., Colorado Springs, Colo. (51). **F K**

Hobbs, Prof. Perry L., Western Rerserve Medical College, Cleveland, Ohio. (41). **C**

*Hobbs, William Herbert, Ph. D., Madison, Wis. (41). 1893. **E**

Hobby, C. M., M. D., Iowa City, Iowa. (51). **K**

Hodge, Frederick Humbert, Professor of Mathematics, Bethel College, Russellville, Ky. (50). **A**

Hodge, James M., Big Stone Gap, Va. (29). **D E**
Hodges, Miss Julia, 217 W. 44th St., New York, N. Y. (36). **E F H**
Hodges, Thomas Edward, Professor of Physics, W. Va. State University, Morgantown, W. Va. (50). **B**
*Hodgkins, Prof. H. L., Columbian University, Washington, D. C. (40). 1896. **A B**
HOE, MRS. R., JR., 11 E. 36th St., New York, N. Y. (36).
Hoe, Mrs. Richard M., 11 E. 71st St., New York, N. Y. (36).
Hoffman, Christian B., Enterprise, Kansas. (50). **D H**
Hoffman, Very Rev. Eugene Aug., D. D., 1 Chelsea Square, New York, N. Y. (36).
*HOFFMANN, DR. FRIEDRICH, Charlottenburg, Kant St. 125, Berlin, Germany. (28). 1881. **C F**
Hogeboom, Miss Allen C., Shelbyville, Ky. (46). **C**
Holbrook, Henry R., Civil Engineer, Pueblo, Colo. (51). **D**
Holbrook, Percy, Genl. Mgr. Weber Ry. Joint Mfg Co., 145 W. 69th St., New York, N. Y. (51). **D**
Holbrow, Herman, L., Electrical Engineer, 112 Waverly Ave., Brooklyn, N. Y. (50). **D**
Holden, Edwin R., 13 E. 79th St., New York, N. Y. (49).
HOLDEN, MRS. L. E., The Hollenden, Cleveland, Ohio. (35).
Holferty, George M., Instructor in Botany, University of Illinois, Urbana, Ill. (50). **G**
*Holland, W. J., D. D., LL.D., Director Carnegie Museum, Pittsburg, Pa. (37). 1896. **F**
*Hollick, Arthur, N. Y. Botanical Garden, Bronx Park, New York, N. Y. (31). 1892. **E G**
Hollinshead, Warren H., Vanderbilt University, Nashville, Tenn. (37).
Hollister, John James, Mining Engineer, Gaviota, Santa Barbara Co., Cal. (50). **E**
Holmes, A. M., M. D., Jackson Block, Denver, Colo. (50). **F K**
Holmes, Dr. Christian R., 8–10 East Eighth St., Cincinnati, Ohio. (48).
Holmes, Frederic Harper, Instructor in Physics, Geography and Mathematics, State Normal School, Hyannis, Mass. (50). **A B E**
*Holmes, Prof. Joseph A., State Geologist, Chapel Hill, N. C. (33). 1887. **E F**
Holmes, Miss Mary S., 1331 Twelfth St., Philadelphia, Pa. (50). **E**
Holsinger, Samuel J., Special Agent, Interior Department, Phoenix, Arizona. (50). **H**
Holt, Chas., 255 W. 45th St., New York, N. Y. (51).
Holt, Edwin B., Trinity Court, Dartmouth St., Boston, Mass. (49).
Holt, Henry, 29 W. 23d St., New York, N. Y. (29).
Holt, Herbert S., President, Montreal Light, Heat and Power Co., Montreal, Can. (51). **D**

Holton, Henry D., M. D., Brattleboro, Vt. (44). **I**

Homer, Charles S., Valentine & Co., 245 Broadway, New York, N. Y. (29).

Hoobler, Bert Raymond, Cornell University, Ithaca, N. Y. (50). **F G**

Hood, William, 512 Van Ness Ave., San Francisco, Cal. (35). **D**

Hooker, Donald R., Chemist, 1707 Fairmont Ave., Baltimore, Md. (50). **C K**

Hooker, Prof. Henrietta E., Mt. Holyoke College, South Hadley, Mass. (45). **G**

Hooper, Alcaeus, 710 Merchant's Bank, Baltimore, Md. (50). **I**

Hooper, Prof. Franklin W., Curator Brooklyn Institute, Brooklyn, N. Y. (43).

Hoover, William, Athens, Ohio. (49).

Hopeman, H., M. D., Minden, Neb. (51). **K**

*Hopkins, A. D., Ph. D., State University, Morgantown, W. Va. (42). 1899. **F**

*Hopkins, Prof. Arthur John, Amherst College, Amherst, Mass. (44). 1900. **C**

Hopkins, George B., 52 Broadway, New York, N. Y. (50).

Hopkins, George I., Manchester, N. H. (47). **A B**

*Hopkins, Grant S., Cornell University, Ithaca, N. Y. (41). 1900. **F**

*Hopkins, Nevil Monroe, Asst. Professor of Chemistry, Columbian University, Washington, D. C. (48). 1901. **C D**

*Hopkins, Thomas Cramer, Syracuse University, Syracuse, N. Y. (38). 1898. **E**

Hormell, Prof. William G., Ohio Wesleyan Univ., Delaware, Ohio. (48). **B**

Hornung, Christian, Professor of Mathematics and Astronomy, Heidelberg University, Tiffin, Ohio. (50). **A D**

*Horsford, Miss Cornelia, 27 Craigie St., Cambridge, Mass. (46). 1897. **H**

Hortvet, Julius, State Chemist, 1521 University Ave., S.E., Minneapolis, Minn. (50). **C**

Hoskins, William, La Grange, Ill. (34). **C**

Hosmer, Sidney, E. E., Boston Electric Light Co., 3 Head Place, Boston, Mass. (50). **D**

Hotchkiss, Henry Stuart, 55 Hillhouse Ave., New Haven, Conn. (50). **E I**

*Hough, Prof. G. W., Northwestern University, Evanston, Ill. (15). 1874. **A B D**

Hough, Theodore, Ph. D., Assistant Professor of Biology, Mass. Institute of Technology, Boston, Mass. (51). **K**

*Hough, Walter, U. S. National Museum, Washington, D. C. (38) 1890.

Houk, Mrs. Eliza P. T., 41 W. Second St., Dayton, Ohio, (48).

Houser, Gilbert L., Ph. D., Professor Animal Morphology and Physiology, University of Iowa, Iowa City, Iowa. (50). **F K**

Houston, David Walker, M. D., Troy, N. Y. (51). **K**

*Hovey, Edmund O., Amer. Mus. Nat. History, Central Park, New York, N. Y. (36). 1895. **C E**

*Hovey, Rev. Horace C., 60 High St., Newburyport, Mass. (29). 1883. **E H**

Howard, Charles P., 116 Farmington Ave., Hartford, Conn. (51).

*Howard, Curtis C., 97 Jefferson Ave., Columbus, Ohio. (38). 1892. **C**

*Howard, Leland O., Ph. D., Cosmos Club, Washington, D. C. (37). 1889. **F**

Howard, Mrs. Leland O., 2026 Hillyer Place, N.W., Washington, D. C. (49). **H**

Howard, Orson, M. D., Professor of Biology, University of Utah, Salt Lake City, Utah. (50). **F K**

*Howard, S. Francis, Professor of Chemistry, Mass. Agricultural College, Amherst, Mass. (50). 1901. **C**

Howard, Wm. Lee, M. D., 1126 N. Calvert St., Baltimore, Md. (51). **K**

*Howe, Charles S., Case School of Applied Science, Cleveland, Ohio. (34). 1891. **A**

*Howe, Henry M., Professor of Metallurgy, Columbia University, New York, N. Y. (50). 1901. **D**

*Howe, Herbert Alonzo, Director of the Chamberlin Observatory, University of Denver, University Park, Colo. (50). 1901. **A**

*Howe, Prof. Jas. Lewis, Washington and Lee University, Lexington, Va. (36). 1888. **C**

Howe, J. Morgan, M. D., 12 West 46th St., New York, N. Y. (50).

Howe, Marshall A., New York Botanical Garden, Bronx Park, New York, N. Y. (49).

*Howell, Edwin E., 612 17th St., N.W., Washington, D. C. (25). 1891. **E**

Howell, John W., Ballantine Parkway, Newark, N. J. (50).

*Howell, William H., M. D., Professor of Physiology, Johns Hopkins University, Baltimore, Md. (50). 1901. **F K**

Howell, Wilson Stout, Sec'y Association of Edison Illuminating Companies, 14 Jay St., New York, N. Y. (50). **D**

Hower, Harry Sloan, Instructor in Physics, Case School of Applied Science, Cleveland, Ohio. (50). **B**

Howerth, Ira Woods, Instructor in Sociology, University of Chicago, , Chicago, Ill. (50). **I**

Howland, Howard Newell, 116 S. 52d Ave., Chicago, Ill. (50). **F**

*Hrdlicka, Aleš, M. D., Amer. Mus. Nat. Hist., 77th St. and Central Park, West, New York, N. Y. (46). 1897. **H**

Hubbard, Walter C., Coffee Exchange Bldg., New York, N. Y. (49).

*Huber, G. Carl, M. D., Junior Professor of Anatomy and Director of Histological Laboratory, University of Michigan, Ann Arbor, Mich. (50). 1901. **F K**

Huddleston, John H., M. D., 126 West 85th St., New York, N. Y. (51). **K**

*Hudson, George H., Vice Principal, Dept. Natural Science, State Normal and Training School, Plattsburgh, N. Y. (31). 1901. **F**

Hull, Gordon Ferrie, Professor of Physics, Dartmouth College, Hanover, N. H. (50). **B**

Hume, Alfred, C. E., University Miss. (39). **A**

Hummel, John A., Experiment Station, St. Anthony Park, Minn. (48).

Humphrey, Richard L., Testing Laboratory, City Hall, Philadelphia, Pa. (48). **D**

Humphreys, Alex. C., M. E., C. E., 31 Nassau St., New York, N. Y. (49).

Hungerford, W. S., care of W. Ames & Co., Jersey City, N. J. (43). **D**

Hunsicker, George W., 141 N. 8th St., Allentown, Pa. (50). **C**

Hunt, Chas. Wallace, Stapleton, N. Y. (51).

*Hunter, Andrew Frederick, Barrie, Ontario, Can. (38). 1896. **B H I**

Hunter, Chas. H., M. D., 13 Syndicate Block, Minneapolis, Minn. (51). **K**

*Hunter, Prof. Joseph Rufus, Richmond College, Richmond, Va. (45). 1899. **C**

Hunter, Samuel John, Associate Professor of Entomology, University of Kansas, Lawrence, Kansas (50). **F**

Hunter, Walter David, Special Agent, U. S. Department Agriculture, Washington, D. C. (50). **F**

Huntington, Edward Vermilye, Williams College, Williamstown, Mass. (47). **A**

Huntington, Ellsworth, Highland St., Milton, Mass. (51).

Hurd, E. O., Plainville, Ohio. (30). **E F**

Huxley, Henry Minor, Hotel Hunnewell, Newton, Mass. (48).

Hyams, Miss Isabel F., 26 Wales St., Dorchester, Mass. (47). **C**

Hyde, B. T. Babbitt, 20 W. 53d St. New York, N. Y. (43). **D**

Hyde, Charles Gilman, 6336 Burbridge St., Germantown, Pa. (47). **D**

Hyde, Miss Edith E., U. S. Nat'l Museum, Washington, D. C. (50). **H I**

Hyde, E. Francis, 835 Fifth Ave., New York, N. Y. (43). **A**

Hyde, Miss Elizabeth Mead, 210 E. 18th St., New York, N. Y. (49). **H**

*Hyde, E. W., Station D, Cincinnati, Ohio. (25). 1881. **A**

Hyde, Frederick E., M. D., 20 W. 53d St., New York, N. Y. (43). **E**

Hyde, Frederick E., Jr., 20 W. 53d St., New York, N. Y. (43). **H**
Hyde, Henry St. J., 210 E. 18th St., New York, N. Y. (49).
*Hyde, John, Statistician U. S. Dept. Agriculture, Washington, D. C. (47). 1898. **E I**
*Iddings, Joseph P., Univ. of Chicago, Chicago, Ill. (31). 1884. **E**
Iden, Thomas M., Professor of Chemistry and Physics, State Normal School, Emporia, Kansas. (50). **B C F**
*ILES, GEORGE, 5 Brunswick St., Montreal, Can. (31). 1898. **I**
Ill, Edward J., M. D., 1002 Broad St., Newark, N. J. (51). **K**
Ingham, Wm. A., 320 Walnut St., Philadelphia, Pa. (33). **E**
Ingram, Edward Lovering, C. E., Expert Aid, New York Navy Yard, New York, N. Y. (51). **A B C D**
Inslee, Mrs. Samuel, 50 W. 72d St., New York, N. Y. (49).
Iorns, Martin J., Mount Vernon, Ia. (50). **C G**
*Ives, Frederick E., 2750 N. 11th St., Philadelphia, Pa. (44). 1898. **B**
*Jack, John G., Jamaica Plain, Mass. (31). 1890. **G**
*Jackson, Prof. Charles L., Harvard University, Cambridge, Mass. (44). 1895. **C**
Jackson, John H., M. D., 155 Franklin St., Fall River, Mass. (51). **K**
*Jackson, Dr. Robert T., 33 Gloucester St., Boston, Mass. (37). 1890. **F**
Jackson, Victor H., M. D., D. D. S., 240 Lenox Ave., New York, N. Y. (51). **K**
Jacobs, Henry Barton, M. D., Instructor in Medicine, Johns Hopkins Medical School, Baltimore, Md. (50). **K**
Jacobs, Michael William, 222 Market St., Harrisburg, Pa. (50). **I**
*Jacobus, David S., Stevens Institute, Hoboken, N. J. (36). 1889. **A B D**
*Jacoby, Harold, Columbia University, New York, N. Y. (38). 1891. **A**
*Jacoby, Henry S., Prof. of Bridge Engineering and Graphics, Cornell University, Ithaca, N. Y. (36). 1892. **D**
Jaffa, Myer Edward, Berkeley, Cal. (47).
James, Bushrod W., A. M., LL.D., M. D., N.E. cor. 18th and Green Sts., Philadelphia, Pa. (29). **F**
James, Charles C., Dept. Agriculture, Toronto, Can. (46). **I**
James, Mrs. Sarah S., 1517 O St., N.W., Washington, D. C. (49). **H I**
*Jaques, Capt. William H., Little Boarshead, N. H. (47). 1899. **D**
Jarman, Joseph L., President and Prof. of Chemistry, State Female Normal School, Farmville, Va. (51). **C**
Jarvis, Samuel M., 1 West 72d St., New York, N. Y. (50).
*Jastrow, Dr. Joseph, Univ. of Wisconsin, Madison, Wis. (35). 1887. **F H**

*Jayne, Horace, 318 S. 19th St., Philadelphia, Pa. (29). 1884. F H
Jefferson, J. P., Manufacturer, Warren, Pa. (51). D I
Jefferis, Wm. W., 442 Central Park, West, New York, N. Y. (33). E
*Jeffries, B. Joy, M. D., 15 Chestnut St., Boston, Mass. (29). 1881. F H
Jelly, George Frederick, M. D., 69 Newbury St., Boston, Mass. (50). F K
*Jenkins, Edw. H., Drawer 101, New Haven, Conn. (33). 1885. C
Jenks, Albert E., Bureau of Ethnology, Washington, D. C. (50). H
*Jenks, Elisha T., Middleboro, Mass. (22). 1874. D
Jenks, Wm. H., Brookville, Pa. (38).
Jenks, William Johnson, Electrical Engineer, 120 Broadway, New York, N. Y. (50). B D
Jenney, Walter Proctor, E. M., Ph. D., Consulting Geologist and Mining Engineer, Knutsford Hotel, Salt Lake City, Utah. (50). E
Jennings, Gainor, M. D., West Milton, Ohio. (51). K
*Jennings, Walter L., Worcester Polytechnic Institute, Worcester, Mass. (45). 1898.
Jepson, Wm., M. D., Sioux City, Ia. (51). K
*Jesup, Prof. Henry G., Dartmouth College, Hanover, N. H. (36). 1891. F
Jesup, James R., 555 Fifth Ave., New York, N. Y. (50).
*Jesup, Morris K., 44 Pine St., New York, N. Y. (29). 1891. I
Jewell, Lewis E., Johns Hopkins University, Baltimore, Md. (49).
*Jewett, Prof. Frank Fanning, Oberlin College, Oberlin, Ohio. (47). 1899. C
Jewett, Geo. Franklin, M. D., Forman, N. Dak. (51). K
Johns, Carl, Instructor in Biology, Bethany College, Lindsborg, Kans. (50). F
Johnson, Albert Lincoln, C. E., 606 Century Bldg., St. Louis, Mo. (51). D
Johnson, Chas. Willison, Curator of Museum, Wagner Free Institute of Science, Philadelphia, Pa. (51).
Johnson, Frank Edgar, 747 Warburton Ave., Yonkers, N. Y. (50).
Johnson, Frank Seward, M. D., 2521 Prairie Ave., Chicago, Ill. (51). K
Johnson, Miss Isabel Louise, 467 Mass. Ave., Station A, Boston, Mass. (47). E
*Johnson, John B., Madison, Wis. (33). 1886. D
Johnson, Nels, Manistee, Mich. (41). A B
*Johnson, Otis C., 730 Thayer St., Ann Arbor, Mich. (34). 1886. C
Johnson, William Stone, Room 140, State House, Boston, Mass. (47). D
*Johnson, Willis Grant, 52 Lafayette Place, New York, N. Y. (47). 1901. F

Johnson, W. Smythe, Ph. D., Natchitoches, La. (49). **H**

Johnston, Geo. Ben., M. D., 407 E. Grace St., Richmond, Va. (51). **K**

Johnston, Thomas J., 66 Broadway, New York, N. Y. (50). **A B D**

Johnston, William A., Prince Bay, Borough of Richmond, N. Y. (50). **C**

Johnstone, William Bard, Assistant in Physics, Columbia University, New York, N. Y. (50). **B**

Johonnott, Edwin Sheldon, Ph. D., Rose Polytechnic Institute, Terre Haute, Ind. (50).

Jones, Charles C., M. D., Galveston, Texas. (50). **K**

Jones, Clement Ross, Professor Mechanical Engineering, West Virginia University, Morgantown, W. Va. (50). **D**

*Jones, Frederick S., Professor of Physics, University of Minnesota, Minneapolis, Minn. (45). 1901. **B**

*Jones, Lewis R., Burlington, Vt. (41). 1894. **G**

Jones, Lynds, M. Sc., Instructor in Zoology, Oberlin College, Oberlin, Ohio. (50). **F**

*Jones, Prof. Marcus E., Salt Lake City, Utah. (40). 1893. **G**

Jones, Philip Mills, M. D., 1710A, Stockton St., San Francisco, Cal. (50).

*Jordan, Prof. David Starr, President of Stanford University, Stanford University, Cal. (31). 1883. **F**

*Jordan, Edwin Oakes, Ph. D., University of Chicago, Chicago, Ill. (50). 1901. **K**

Jordan, Whitman H., Director N. Y. Agric. Exper. Station, Geneva, N. Y. (45).

Juat, Francis, M. D., Aberdeen, N. C. (50). **F K**

*Judd, Prof. Charles H., University of Cincinnati, Cincinnati, Ohio. (49). 1901. **H I**

*Julien, Alexis A., N. Y. Academy of Sciences, New York, N. Y. (24). 1875. **C E**

Just, John A., Chemist, 116 West Castle St., Syracuse, N. Y. (50). **C**

Kahl, Paul Hugo Isidor, State Inspector of Nurseries and Orchards, 903 California St., Urbana, Ill. (50). F.

*Kahlenberg, Louis, Ph. D., 306 Lake St., Madison, Wis. (46). 1898. **C**

Kahn, Julius, 100 West 80th St., New York, N. Y. (50). **C**

Kammerer, Jacob Andrae, 87 Jameson Ave., Toronto, Canada. (50). **C D**

Kaufmann, Paul, M. D., Professor of Bacteriology, Pathology, and Hygiene, State University, Columbia, Mo. (50). **K**

Kay, James I., 426 Diamond St., Pittsburg, Pa. (51). **D I**

Kay, Thomas Wiles, M. D., 345 Wyoming Ave., Scranton, Pa. (51). **K**

Kean, Mrs. Hamilton Fish, 25 East 37th St., New York, N. Y. (50).

Keane, John J., Rt. Rev., Archbishop of Dubuque, Dubuque, Ia. (51).

Kearney, Thomas H., Jr., U. S. Dept. Agriculture, Washington, D. C. (47). **G**

Keasbey, Lindley Miller, Professor of Economics and Politics, Bryn Mawr College, Bryn Mawr, Pa. (51). **H I**

Kedzie, John H., 1514 Ridge Ave., Evanston, Ill. (34). **B**

*Kedzie, Robert C., M. D., Professor of Chemistry, Agricultural College, Mich. (29). 1881. **C**

Keene, Geo. Fredk., M. D., Supt. State Hospital for the Insane, Howard, R. I. (51). **K**

*Keep, Wm. J., Detroit, Mich. (37). 1897.

Keilholtz, Pierre Otis, Consulting Engineer, Continental Trust Building, Baltimore, Md. (50). **D**

Keim, Edward Tudor, E. E., Supt. Am. Dist. Tel. Co., 1447 Lawrence St., Denver, Colo. (50). **D F**

Keith, Prof. Marcia A., Mount Holyoke College, South Hadley, Mass. (46). **B**

Keller, Edward, Ph. D., Box 724, Baltimore, Md. (50). **C D**

Keller, Emil E., P. O. Box 452, Pittsburg, Pa. (51).

*Kellerman, Prof. William A., Ohio State University, Columbus, Ohio. (41). 1893. **G**

Kelley, John Harris, 315 N. Vine St., Nashville, Tenn. (44). **C**

Kelley, Walter S., Mining Engineer, Leadville, Colo. (50). **D**

Kellogg, John H., M. D., Battle Creek, Mich. (24). **F**

*Kellogg, Vernon Lyman, Professor of Entomology, Stanford University, California. (50). 1901. **F**

Kelly, John F., Ph. D., Consulting Electrical Engineer, 284 W. Housatonic St., Pittsfield, Mass. (50). **D**

Kelly, William, Mining Engineer, General Manager Penn. Iron Mining Co., Vulcan, Mich. (50). **D E**

Kelsey, Harlan Page, 1150 Tremont Building, Boston, Mass. (47). **G**

Kelsey, James A., Agric. Exper. Station, New Brunswick, N. J. (49).

*Kemp, James F., School of Mines, Columbia University, New York, N. Y. (36). 1888. **E**

Kendall, Francis Drake, M. D., 1309 Plain St., Columbia, So. Carolina. (51). **K**

Kendall, Hugh F., Mining Engineer, The Interstate Mining Co., Virginia, Minn. (50). **E**

Kendig, Rev. A. B., D. D., 86 Vernon St., Brookline, Mass. (49).

*Kendrick, Arthur, Electrical Measuring Instruments, 45 Hunnewell Ave. Newton, Mass. (45). 1897. **B**

Kennedy, Frank Lowell, Instructor in Lawrence Scientific School, Harvard University, Cambridge, Mass. (50).

Kennedy, Dr. George Golding, Readville, Mass. (40). **F G**

KENNEDY, HARRIS, 284 Warren St., Roxbury, Mass. (40). **E F**

*Kennelly, Arthur Edwin, Sc. D., Electrical Engineer, Crozer Building, Philadelphia, Pa. (50). 1901. **D**

Kent, James Martin, Instructor in Steam and Electricity, Manual Training High School, Kansas City, Mo. (50). **D E**

Kent, Norton Adams, Ph. D., Yerkes Observatory, Williams Bay, Wis. (50). **A**

*Kent, William, Passaic, N. J. (26). 1881. **D I**

Kenyon, Oscar Curtis, Teacher of Physics, High School, Syracuse, N. Y. (50). **B**

Kepner, Harry V., Instructor in Chemistry, Manual Training High School, Denver, Colo. (50). **C**

Keppel, F. P., Secretary of Columbia University, West 116th St., New York, N. Y. (51).

Keppler, Rudolph, 28 W. 70th St., New York, N. Y. (49).

Kern, Josiah Quincy, Ph. D., 507 6th St., N.W., Washington, D. C. (40). **I**

Kern, Walter McCullough, Supt. Public Schools, Columbus, Neb. (50). **F G**

*Kershner, Prof. Jefferson E., Lancaster, Pa. (29). 1883. **A B**

Kesler, John Louis, Prof. of Natural Science, Baptist Female University, Raleigh, N. C. (51). **F**

Kester, Fred. Edward, Ohio State University, Columbus, Ohio. (48). **B**

Ketchum, Alexander P., 32 Mt. Morris Park, W., New York, N. Y. (49).

*Keyser, Cassius Jackson, Instructor in Mathematics, Columbia University, New York, N. Y. (50). 1901. **A**

Kimball, Albert B., M. E., Central High School, Springfield, Mass. (47). **B**

*Kimball, Arthur Lalanne, Professor of Physics, Amherst College, Amherst, Mass. (50). 1901. **B**

Kimball, Edwin Boyce, Mining Engineer, Oroville, Cal. (50). **D**

Kimball, S. I., Life Saving Service, U. S. Treasury Dept., Washington, D. C. (49). **I**

Kindle, Dr. Edward M., Geologist, 109 Elm St., New Haven, Conn. (50). **E**

*Kinealy, John H., Washington University, St. Louis, Mo. (36). 1891. **D**

*King, A. F. A., M. D., 1315 Mass. Ave., N.W., Washington, D. C. (29). 1900. **F H**

King, Cyrus A., Ph. D., Instructor in Botany, University of Indiana, Bloomington, Ind. (50). **G**

*King, F. H., 205 9th St., S.W., Washington, D. C. (32). 1892. **E F**
King, George B., Lawrence, Mass. (47).
*Kingsbury, Albert, Professor of Applied Mechanics, Worcester Polytechnic Institute, Worcester, Mass. (43). 1898. **D**
*Kingsbury, Benj. F., Ithaca, N. Y. (45). 1899. **F**
Kinner, Hugo, M. D., 1103 Rutger St., St. Louis, Mo. (21). **F H**
Kinney, Charles Noyes, Professor of Chemistry, Drake University, Des Moines, Iowa. (50). **C**
Kinney, Julius Eugene, M. D., 1427 Stout St., Denver, Colo. (51). **K**
*Kinnicutt, Dr. Leonard P., 77 Elm St., Worcester, Mass. (28). 1883. **C**
Kinraid, Thomas Burton, 38 Spring Park Avenue, Jamaica Plain, Mass. (47).
Kinsley, Carl, Quadrangle Club, Chicago, Ill. (47). **B**
Kirk, Arthur, 910 Duquesne Way, Pittsburg, Pa. (50). **E I**
Kirk, Elliott W., Wesley Hall, Nashville, Tenn. (50). **F G**
Kirkpatrick, E. A., Fitchburg, Mass. (49). **H I**
Kirkpartick, Samuel, M. D., Selma, Ala. (51). **K**
Kirkwood, Joseph E., Instructor in Botany, Syracuse University, Syracuse, N. Y. (51). **G**
*Kirschmann, A., Ph. D., Toronto University, Toronto, Can. (50). 1901. **H K**
Kittredge, Miss H. A., North Andover, Mass. (37). **F**
Klebs, Arnold C., M. D., 706, 100 State St., Chicago, Ill. (51). **K**
Klepetko, Frank, Manager Reduction Works of Anaconda Copper Mining Co., Butte, Mont. (50). **D**
Klie, G. H., Chas. M. D., 5100 N. Broadway, St. Louis, Mo. (39). **C F**
*Klotz, Otto Julius, 437 Albert St., Ottawa, Can. (38). 1889.
Knapp, Alfred A., M. D., Brimfield, Peoria Co., Ill. (51). **K**
Knapp, G. N., Stanton, Minn. (46). **G H**
Knauff, Francis Henry, Oak Lane, Philadelphia, Pa. (51). **D**
Knerr, Ellsworth B., Sc. D., Midland College, Atchison, Kas. (51).
Knight, Prof. Charles M., 219 S. Union St., Akron, Ohio. (29). **B C**
Knight, Wm. H., President So. California Academy of Sciences, 2 Bryson Block, Los Angeles, Cal. (51). **A**
*Knipp, Charles Tobias, Indiana University, Bloomington, Ind. (46). 1900. **B**
Knowles, Morris, Resident Engineer, Bureau of Filtration, 5656 Callowhill St., Pittsburg, Pa. (51). **D**
Knox, Francis H., Electrical Engineer, Spartanburg, S. C. (50). **D**
Knox, Henry H., Mining Engineer, 110 East 23d St., New York, N. Y. (50). **D**
Knox, S.L. Griswold, General Electric Co., Schenectady, N. Y. (50) **D**

*Kober, Geo. Martin, M. D., 1600 T St., N.W., Washington, D. C. (40). 1896. **H**

Koenig, Adolph, M. D., Editor "Penna. Medical Journal," 122 Ninth St., Pittsburg, Pa. (50). **F G K**

*Kofoid, Prof. Charles Atwood, University of California, Berkeley, Cal. (48). 1899. **F**

Kohnke, Quitman, M. D., Chairman and Health Officer, Board of Health, Cora Building, New Orleans, La. (51). **K**

Kolbenheyer, Fred'k, M. D., 2006 Lafayette Ave., St. Louis, Mo. (51). **K**

Koues, Miss Elizabeth L., 282 W. 85th St., New York, N. Y. (41). **I**

*Kraemer, Prof. Henry, 145 N. 10th St., Philadelphia, Pa. (47). 1901. **G**

Kraus, Edward H., Syracuse University, Syracuse, N. Y. (50). **E**

Krause, Otto H., Prospect Ave., Hackensack, N. J. (50).

Krécsy, Prof. Béla, VI Bulyovsxky u. 22, Budapest, Hungary. (41). **C**

*Kremers, Prof. Edward, University of Wisconsin, Madison, Wis. (47). 1901. **C**

Kretz, Prof. Charles Henry, Asst. Professor Mechanical Engineering, La. State University and A. and M. College, Baton Rouge, La. (50). **D**

*Kroeber, A. L., Ph. D., Univ. of California, Berkeley, Cal. (47). 1901. **H**

Kuhne, F. W., 19 Court St., Fort Wayne, Ind. (38). **A F**

Kummer, Frederic Arnold, Civil Engineer, President, United States Wood Preserving Co., 29 Broadway, New York, N. Y. (51). **D**

Kunhardt, Wheaton B., 1 Broadway, New York, N. Y. (49).

Kuntze, Dr. Otto, Villa Girola, San Remo, Italy. (49).

*Kunz, G. F., care of Messrs. Tiffany & Co., Union Square, New York, N. Y. (29). 1883. **C E H**

*Lachman, Arthur, Ph. D., Professor of Chemistry and Dean of College of Science and Engineering, University of Oregon, Eugene, Oregon. (50). 1901. **C D**

*Ladd, Prof. E. F., Agricultural College, Fargo, No. Dakota. (36). 1889. **C**

Ladd, George Tallman, care Bass Foundry and Machine Co., Fort Wayne, Ind. (51).

La Fetra, Linnaeus Edford, M. D., 58 West 58th St., New York, N. Y. (50). **F H K**

*Laflamme, Prof. J. C. K., Laval University, Quebec, Can. (29). 1887. **B E**

*La Flesche, Francis, 214 First St., S.E., Washington, D. C. (33). 1885. **H**

*Lamb, Daniel S., M. D., 800 10th St., N.W., Washington, D. C. (40). 1894. **H**

*Lambert, Preston A., 215 S. Center St., Bethlehem, Pa. (41). 1896. **A**

Lampard, Henry, 102 Shuter St., Montreal, Can. (40). **C D E**

Lancaster, Walter B., M. D., 101 Newbury St., Boston, Mass. (51). **K**

Landes, Henry, State Geologist, Seattle, Wash. (51). **E**

Landis, W. W., Dickinson College, Carlisle, Pa. (50).

Landon, Francis C., Staatsburg-on-Hudson, N. Y. (50).

*Landreth, Olin H., Union College, Schenectady, N. Y. (28). 1883. **D**

Lane, Alfred C., State Geologist, Lansing, Mich. (50). **E**

Lane, Horace Manley, M. D., Caixa 14 S. Paulo, Brazil, South America. (46).

Lang, Prof. Henry R., Yale University, New Haven, Conn. (41). **H**

Lange, J. D., 220 W. 79th St., New York, N. Y. (49).

Lange, Philip A., Supt. Westinghouse Elec. and Mfg. Co., Pittsburg, Pa. (50). **D**

*Langenbeck, Karl, 27 Orchard St., Zanesville, Ohio. (39). 1896. **C**

*Langley, Prof. S. P., Smithsonian Institution, Washington, D. C. (18). 1874. **A B**

Langmann, Gustav, M. D., 121 W. 57th St., New York, N. Y. (36).

Langsdorf, Alexander Suss, Instructor in Physics and Electrical Engineering, Washington University, St. Louis, Mo. (50). **B D**

Lanneau, John Francis, Professor of Applied Mathematics and Astronomy, Wake Forest College, Wake Forest, N. C. (50). **A B D**

Lamphear, Burton S., Asst. Professor of Electrical Engineering, Iowa State College, Ames, Ia. (51). **D**

*Lanza, Prof. Gaetano, Mass. Institute Technology, Boston, Mass. (29). 1882. **A B D**

Laramy, Robert Edward, Teacher in Moravian School, 27 North New St., Bethlehem, Pa. (51). **E**

Lare, H. S. P., M. D., 3452 Park Ave., St. Louis, Mo. (49).

La Rue, Wm. Gordon, North Freedom, Wis. (50). **D E**

Lathbury, B. Brentnall, C. E., Consulting Chemist, 1619 Filbert St., Philadelphia, Pa. (51). D.

Latimer, Thos. S., M. D., 211 W. Monument St., Baltimore, Md. (50). **F H K**

*Lattimore, Prof. S. A., University of Rochester, Rochester, N. Y. (15). 1874. **C**

Lauder, George, 7403 Penn Avenue, Pittsburg, Pa. (50).

*Laudy, Louis H., Ph. D., School of Mines, Columbia University, New York, N. Y. (28). 1890. **C**

Lauman, George Nieman, Instructor in Horticulture, Cornell University, Ithaca, N. Y. (50). **G**

Law, Benedict W., 693 Lafayette Ave., Brooklyn, N. Y. (45). **E**
Lawrance, J. P. S., Past Assistant Engineer U. S. N., Navy Dept., Washington, D. C. (35). **D**
Lawrence, A. E., 1 W. 81st St., New York, N. Y. (49).
Lawrence, Harry E., Univ. of Rochester, Rochester, N. Y. (44). **B**
Lawrence, James W., Professor of Mechanical Engineering, Agricultural College, Fort Collins, Colo. (50). **D**
Laws, Frank Arthur, Mass. Institute Technology, Boston, Mass. (47).
*Lawson, Andrew C., Professor of Geology and Mineralogy, University of California, Berkeley, Cal. (50). 1901. **E**
Lay, Henry Champlin, Civil and Mining Engineer and Geologist, U. S. Deputy Mineral Surveyor, Telluride, Colo. (51). **D E**
*Leach, Miss Mary F., 502 Forest Ave., Ann Arbor, Mich. (44). 1896. **C**
*Leaming, Edward, 437 West 59th St., New York, N. Y. (50). 1901. **C**
Leathers, W. S., Professor of Biology, University of Mississippi, University P. O., Miss. (50). **F**
Leavitt, Frank M., Mechanical Engineer, 258 Broadway, New York, N. Y. (51). **D**
Le Boutillier, Roberts, E. Washington Avenue, Germantown, Philadelphia, Pa. (47). **G**
*Le Brun, Mrs. Michel M., 8 Mountain Ave., S., Montclair, N. J. (35). 1892. **F**
Le Conte, Robert Grier, M. D., 1625 Spruce St., Philadelphia, Pa. (51). **K**
Le Conte, Louis Julian, Civil Engineer, P. O. Box 482, Oakland, Cal. (51). **D**
*Ledoux, Albert R., Ph. D., 99 John St., New York, N. Y. (26). 1881. **C**
Lee, Francis Valentine T., Electrical Engineer, 31 and 33 New Montgomery St., San Francisco, Cal. (50). **D**
*Lee, Frederic S., Adjunct Professor of Physiology, Columbia University, New York, N. Y. (49). 1901. **K**
Lee, Waldemar, Passaic, N. J. (50).
Lee, William George, Harvard Medical School, Boston, Mass. (50). **H K**
Lee, Prof. Willis Thomas, Trinidad, Colo. (47). **E F**
Leeds, Morris E., 3221 North 17th St., Philadelphia, Pa. (50). **B**
*Lefavour, Prof. Henry, The Westminster, Boston, Mass. (42). 1894.
Le Grand, Leroy, M. D., Graham, Texas. (50). **F K**
*Lehmann, G. W., Ph. D., City Hall Annex, Baltimore, Md. (30). 1885. **B C**
Lehnartz, W., 173 S. Union St., Grand Rapids, Mich. (51).

Leidy, Joseph, Jr., M. D., 1319 Locust St., Philadelphia, Pa. (51). **K**

Leisen, Theo. Alfred, Civil Engineer, Wilmington, Del. (51). **B C D G**

Leiter, L. Z., 81 South Clark St., Chicago, Ill (40).

Lemley, C. McC., Asst. Engineer, B. & O. R.R. Co., Philippi, W. Va. (51). **D**

Lemp, William J., cor. Cherokee St. and 2d Carondelet Avenue, St. Louis, Mo. (27).

Lender, Mrs. Julia A., 2201 Lincoln Ave., Denver, Colo. (50). **A B**

Lengfeld, Felix, Ph. D., Consulting and Manufacturing Chemist, 202 Stockton St., San Francisco, Cal. (51). **C**

*Lennon, William H., Brockport, N. Y. (31). 1894. **C G**

Leonard, Chas. Lester, M. D., 1930 Chestnut St., Philadelphia, Pa. (51). **K**

Leonard, John William, Editor of "Who's Who in America," Wheaton, Ill. (50). **I**

Leonard, Percy Allan, Editor of "Ores and Metals," P. O. Box 364, Denver, Colo. (50). **E**

Le Rossignol, James Edward, Ph. D., Professor of Economics, University of Denver, University Park, Colo. (50). **I**

*Lesley, Prof. J. Peter, P. O. Box 93, Milton, Mass. (2). 1874. **E**

Leslie, Miss Augusta, Newburgh, N. Y. (50). **I**

Letson, Miss Elizabeth J., 366 Mass. Ave., Buffalo, N. Y. (47).

*Leverett, Frank, Ann Arbor, Mich. (37). 1891. **E**

Levine, Edmund J., The Fiberloid Co., 638 Broadway, New York, N. Y. (49).

Lewis, Clarence McKenzie, care Chief Engineer, B. & O. R.R., Baltimore, Md. (47). **D**

Lewis, George Smith, 746 State St., Springfield, Mass. (44). **G**

Lewis, Howard W., Banker, 1928 Spruce St., Philadelphia, Pa. (51). **I**

*Lewis, Joseph Volney, Professor of Geology, Clemson College, S. C. (45). 1900. **C E**

Lewis, Wilfred, Pres. The Tabor Mfg. Co., 5901 Drexel Road, Philadelphia, Pa. (51). **D**

*Libbey, Prof. William, Princeton, N. J. (29). 1887. **E F**

Lichthardt, G., Jr., 18th and M Sts., Sacramento, Cal. (50).

Lichty, Milton J., M. D., Cor. Genesee St. and Hough Ave., Cleveland, Ohio. (50). **F K**

Lightfoot, Thos. Montgomery, Asst. Prof. of Physical Science, Central High School, Philadelphia, Pa. (51). **G**

*Lillie, Frank R., Professor of Zoology, University of Chicago, Chicago, Ill. (50). 1901. **F**

Lincoln, Paul Martyn, Electrical Engineer, care Niagara Falls Power Co., Niagara Falls, N. Y. (50). **D**

*Lindenkohl, Adolphus, U. S. C. and G. Survey, Washington, D. C. (40). 1898. **E**

Lindenkohl, Henry, U. S. C. and G. Survey, Washington, D. C. (47).

*Lindenthal, Gustav., C. E., 45 Cedar St., New York, N. Y. (37). 1891. **I**

Linder, Oliver A., 35 Clark St., Chicago, Ill. (49).

Lindsay, Alexander M., Rochester, N. Y. (41).

Lindsey, Edward, Warren, Pa. (48). **H**

*Ling, Charles Joseph, Instructor in Physics, Manual Training High School, Denver, Colo, (50). 1901. **A B**

*Linn, Alvin Frank, Ph. D., Professor of Chemistry, Wittenberg College, Springfield, Ohio. (50). 1901. **C**

Linn, George A., M. D., Monogahela, Pa. (51). **K**

Linville, Henry, R., 509 West 112th St., New York, N. Y. (49).

Lion, Léon Elie, C. E., Assistant on U. S. Engineer Corps, 1010 Burgundy St., New Orleans, La. (51). **D**

Littell, Frank B., U. S. Naval Observatory, Washington, D. C. (49).

Little, C. A., Analyst at Lorain Steel Works, Box 517, Elyria, Ohio. (50). **D**

Little, Henry P., Superintendent of Union Schools, Momence, Ill. (50). **B**

Livermore, Mrs. M. A. C., 59 Brewster St., Cambridge, Mass. (29). **F**

Lloyd, Andrew J., 310 Boylston St., Boston, Mass. (47). **B H**

*Lloyd, Francis E., Teachers' College, Columbia University, New York, N. Y. (48). 1901. **G**

*Lloyd, John Uri, Court and Plum Sts., Cincinnati, Ohio. (38). 1890. **C F**

Lobenstine, William C., 245 Central Park, W., New York, N. Y. (49).

Lockwood, Cornelius Wygant, Teacher of Science, Newburgh Academy, Newburgh, N. Y. (50). **B E**

Lockwood, Edwin Hoyt, Asst. Prof. Mechanical Engineering, Yale University, New Haven, Conn. (50). **D**

*Loeb, Morris, Ph. D., 118 W. 72d St., New York, N. Y. (36). 1889. **C**

Loeb, Leo, M. D., Gratwick Research Laboratory, University of Buffalo, Buffalo, N. Y. (51). **K**

*Loew, Dr. Oscar, Komaba, Tokyo, Japan. (49). 1900. **G**

Loewy, Benno, 206 and 208 Broadway, New York, N. Y. (41).

Logan, F. G., 2919 Prairie Ave., Chicago, Ill. (42). **H**

LOGAN, WALTER S., 27 William St., New York, N. Y. (36).

Lomb, Adolph, P. O. Drawer 1033, Rochester, N. Y. (41).

Lomb, Henry, P. O. Drawer 1033, Rochester, N. Y. (41).

Lomb, Henry C., P. O. Drawer 1033, Rochester, N. Y. (43).
*Long, Prof. John H., 2421 Dearborn St., Chicago, Ill. (41). 1895. **C**
Long, William Henry, Jr., Denton, Texas. (50).
*Longden, A. C., Ph. D., Professor of Physics, Knox College, Galesburg, Ill. (49). 1901. **B**
Loomis, Frederick B., Ph. D., Assistant in Zoology, Amherst College, Amherst, Mass. (50). **F**
Lord, Benjamin, 34 W. 28th St., New York, N. Y. (36).
*LOUBAT, LE DUC DE, 47 rue Dumont d'Urville, Paris, France. (46). 1897. **H**
*Loud, Frank H., Colorado Springs, Colo. (29). 1890. **A B**
Louderback, George Davis, Professor of Geology, Nevada State University, Reno, Nev. (50). **E**
*Lough, J. E., New York University, Washington Square, New York, N. Y. (50). 1901. **I**
*Loughridge, Dr. R. H., Univ. of California, Berkeley, Cal. (21). 1874. **C E**
*Love, Edward G., 80 E. 55th St., New York, N. Y. (24). 1882. **C**
Lovejoy, J. R., Genl. Elec. Co., Schenectady, N. Y. (50). **D**
LOVELAND, HORACE HALL, M. D., Michigamme, Mich. (51). **K**
Low, A. A., Columbia Heights, Brooklyn, N. Y. (43). A.
*Low, Seth, Mayor of City of New York, New York, N. Y. (29). 1890.
Lowber, Rev. James William. Ph. D., 113 East 18th St., Austin, Texas. (50). **I**
Lowell, Mrs. Charles Russell, 120 East 30th St., New York, N. Y. (49).
*Lowell, Percival, 53 State St., Boston, Mass. (36). 1896. **A**
Lowell, Russell C., 167 Ohio Ave., Providence, R. I. (51).
Lucas, Anthony F., Mining Engineer, 1406 16th St. N.W., Washington, D. C. (50). **D E**
Luckey, John Eddy, M. D., Vinton, Ia., (51). **I K**
*Ludlow, Jacob Lott, C. E., 434 Summit St., Winston, N. C. (50). **B D**
Luebkert, Otto J. J., U. S. Dept. Agriculture, Washington, D. C. (50). **G**
Lufkin, Albert, Newton, Iowa. (31). **D E**
Loll, Richard S., Amherst, Mass. (43). **F H**.
Lund, James, 142 Hawthorne St., Malden, Mass. (45).
Lundin, Carl A. R., care Messrs. Alvan Clark and Sons, Cambridgeport, Mass. (47). **A**
Luquer, Lea McIlvane, Columbia University, New York, N. Y. (49).
Luther, Miss Agnes Vinton, 917 Broad St., Newark, N. J. (47). **E**
*Lyford, Edwin F., Springfield, Mass. (33). 1896. **B C H**
Lyle, Benjamin F., M. D., 2302 W. Eighth St., Cincinnati, Ohio. (51). **K**

*Lyle, Major David A., U. S. A., P. O. Box 1606, Philadelphia, Pa. (28). 1880. **D**

LYMAN, BENJ. SMITH, 708 Locust St., Philadelphia, Pa. (15). **E**

Lyman, Chester W., Assistant to President of International Paper Co., 30 Broad St., New York, N. Y. (50). **I**

Lyman, Henry H., 74 McTavish St., Montreal, Can. (29). **E F**

Lyman, James, Assist. Engineer, Genl. Elec. Co., 1047 Monadnock Bldg., Chicago, Ill. (50). **D**

Lyons, Albert Brown, M. D., Consulting Chemist, 72 Brainard St., Detroit, Mich. (50). **C K**

*Mabery, Prof. C. F., Case School of Applied Science, Cleveland, Ohio. (29). 1881. **C**

McAlpin, C. W., 11 East 90th St., New York, N. Y. (50).

McAllister, Henry, Jr., Attorney at law, 512 Mining Exchange Building, Colorado Springs, Colo. (51).

McArthur, Lewis L., M. D., 100 State St., Chicago, Ill. (51). **K**

Macbeth, George A., Trustee Carnegie Institute, Pittsburg, Pa. (50). **D H**

McBride, Hon. George Wickliffe, U. S. Comm'r La. Purchase Exposition, P. O. Box 173, Washington, D. C. (51). **I**

McBride, Jas. H., M. D., Pasadena, Cal. (51). **K**

*Macbride, Thomas H., Iowa City, Iowa. (38). 1890. **G**

McCalley, Henry, Chief Assist. State Geologist, University, Ala. (50). **E**

McCartney, Dr. James H., Room 501 Granite Building, Rochester, N. Y. (41). **A B**

*McCauley, C. A. H., Colonel and Deputy Quartermaster-General, U. S. A., Manila, P. I. (29). 1881.

McClelland, James H., M. D., 5th and Wilkins Aves., Pittsburg, Pa. (50). **F K**

*McClintock, Emory, Morristown, N. J. (43). 1895. **A**

McCormick, Henry Dreer, M. D., Resident Physician, Branch Hospital for the Insane, Verona, N. J. (51). **K**

McCoy, Lucinus S., Whitten, Hardin Co., Iowa. (50). **A**

*McCreath, Andrew S., 223 Market St., Harrisburg, Pa. (33). 1889. **C E**

McCune, M. Virginia, M. D., 506 West John St., Martinsburg, W. Va. (51). **K**

*McCurdy, Charles W., Ph. D., Witherspoon Building, Philadelphia, Pa. (35). 1895. **E F**

*MacCurdy, George Grant, Ph. D., 237 Church St., New Haven, Conn. (48). 1900. **H**

McCurdy, Hansford M., Manual Training High School, Kansas City, Mo. (51). **F G**

McDermott, Rev. P. A., Pittsburg College of the Holy Ghost, Bluff and Cooper Sts., Pittsburg, Pa. (51).

Macdonald, Benjamin J., 296 Grand St., Newburgh, N. Y. (50). **I**
McDonnell, Curtis C., Asst. Chemist Agric. Exper. Station, Clemson College, S. C. (51). **C**
*McDonnell, Prof. Henry B., College Park, Md. (40). 1893. **C**
*MacDougal, Daniel T., N. Y. Botanical Garden, Bronx Park, New York, N. Y. (44). 1897. **G**
MacDougall, George R., 131 West 73d St., New York, N. Y. (49).
*MacDougall, Robert, Ph. D., Sedgwick Park, University Heights, New York, N. Y. (49). 1901. **H K**
McFadden, L. H., Westerville, Ohio. (32). **B C**
McFadden, Thomas Gilbert, Lebanon Valley Coll., Annville, Pa. (48). **C**
MacFarland, W. W., 22 William St., New York, N. Y. (49).
*Macfarlane, A., Lehigh University, S. Bethlehem, Pa. (34). 1886. **A B**
Macfarlane, James R., President Academy of Science and Art, Pittsburg, Pa. (50). **E**
*Macfarlane, John M., Lansdowne, Pa. (41). 1899. **F G**
McGahan, Chas. F., M. D., Aiken, S. C. (51). **K**
*McGee, Dr. Anita Newcomb, 1901 Baltimore St., Washington, D. C. (37). 1892. **H**
McGee, D. W., Farley, Iowa. (50). **E**
McGee, Miss Emma R., Box 197, Farley, Iowa. (33). **H**
McGee, John Bernard, M. D., 1405 Woodland Ave., Cleveland, Ohio. (51). **H K**
*McGee, W J, Ph. D., Bureau Amer. Ethnology, Washington, D. C. (27). 1882. **E H**
*McGill, John T., Ph. D., Vanderbilt University, Nashville, Tenn. (36). 1888. **C**
McGinnis, W. H., 1020 Orange St., Youngstown, Ohio. (48).
*McGregory, Prof. J. F., Colgate University, Hamilton, N. Y. (35). 1892. **C**
McGuire, Joseph D., 1908 Sunderland Place, Washington, D. C. (51).
MacIntyre, Miss Lucy, 303 West 74th St., New York, N. Y. (49).
Mack, Jacob W., 92 Liberty St., New York, N. Y. (49).
McKee, George C., care The Wm. Tod Co., Youngstown, Ohio. (48). **A B D**
McKelvy, William H., M. D., President Board of Education, 420 6th Ave., Pittsburg, Pa. (50). **I**
McKenney, Randolph Evans Bender, Ph. D., Department of Agriculture, Washington, D. C. (51). **G**
McKeown, W. W., Jr., Mining Engineer, Room 607, No. 160 Washington St., Chicago, Ill. (51). **D E**
McKinney, Thomas Emery, Professor of Mathematics and Astronomy, Marietta College, Marietta, Ohio. (50). **A**

McLain, Louis Randolph, Pres. of Florida Engineering Co., St. Augustine, Fla. (51). **D**

McLanahan, George William, 1601 21st St. N.W., Washington, D. C. (50).

MacLaren, Archibald, M. D., Lowny Bldg., 350 St. Peter St., St. Paul, Minn. (51). **K**

McLaughlin, George Eyerman, M. D., 41 Crescent Ave., Jersey City, N. J. (47). **F H**

McLaury, Howard L., Prof. of Mathematics and Physics, So. Dakota School of Mines, Rapid City, So. Dak. (50). **A B**

McLean, Simon James, Ph. D., Professor of Economics and Sociology, University of Arkansas, Fayetteville, Ark. (51). **I**

McLimont, Andrew Wingate, Electrical Engineer, Linares, Nuevo Leon, Mexico. (51). **D**

*Macloskie, Prof. George, Princeton Univ., Princeton, N. J. (25). 1882. **F G**

McMahan, Charles Hays, E. M., Supt. Sombrerete Mining Co., Sombrerete, Zacatecas, Mexico. (50). **E**

*McMahon, Prof. James, Cornell University, Ithaca, N. Y. (36). 1891. **A**

McMillan, Smith B., Signal, Ohio. (37).

McMillin, Emerson, 40 Wall St., New York, N. Y. (37).

*McMurtrie, William, 100 William St., New York, N. Y. (22). 1874. **C**

McNeil, Hiram Colver, Teacher of Chemistry and Physics, Shurtleff College, Upper Alton, Ill. (51). **B C**

*McNeill, Malcolm, Professor Mathematics and Astronomy, Lake Forest University, Lake Forest, Ill. (32). 1885. **A**

MacNeille, Perry Robinson, 155 William St., Orange, N. J. (51).

McNulty, Geo. Washington, Civil Engineer, 258 Broadway, New York, N. Y. (51). **D**

McNulty, John J., Ph. D., College of City of New York, New York, N. Y. (50).

*MacNutt, Barry, Lehigh University, So. Bethlehem, Pa. (47). 1900. **B**

*McPherson, Prof. Wm., Ohio State Univ., Columbus, Ohio. (45). 1898. **C**

McPherson, William D., 58 Hartford St., So. Framingham, Mass. (47).

McQueeney, Francis J., M. D., 46 Dartmouth St., Boston, Mass. (51). **K**

Macy, V. Everit, 68 Broad St., New York, N. Y. (49).

Magee, Jas. Francis, 114 N. 17th St., Philadelphia, Pa. (51). **C**

Magee, Louis J., Electrical Engineer, Grosse Quer Allee 1, Berlin, Germany. (50). **B D**

*Magie, Prof. Wm. Francis, Princeton University, Princeton, N. J. (35). 1887.

Magnusson, Carl Edward, Ph. D., Prof. of Physics, University of New Mexico, Albuquerque, N. M. (51). **D**

Magruder, Egbert W., Chemist, Department of Agriculture, Richmond, Va. (51). **C**

*Magruder, Wm. T., Ohio State Univ., Columbus, Ohio. (37). 1899.

Mahin, John William, Teacher in Manual Training High School, Denver, Colo. (50). **B C E**

Mahoney, Stephen R., M. D., 206 Maple St., Holyoke, Mass. (51). **K**

Makuen, G. Hudson, M. D., 1419 Walnut St., Philadelphia, Pa. (51). **K**

Mallinckrodt, Edw., P. O. Sub-Station A, St. Louis, Mo. (29). **C**

Mally, Charles William, Dept. Agric., Cape Town, So. Africa. (46).

Mally, Fred'k William, Prof. of Entomology, Agric. and Mech. College, College Station, Tex. (50). **F G**

Malm, John Lawrence, Marysville, Mont. (50). **C E**

*Maltby, Margaret E., Ph. D., Barnard College, New York, N. Y. (46). 1898.

Mangan, Daniel C., M. D., 95 Park Ave., Brooklyn, N. Y. (50). **F K**

Manley, Thomas Henry, M. D., 115 West 49th St., New York, N. Y. (51). **K**

Mann, Albert, Ph. D., 506 Westcott St., Syracuse, N. Y. (43). **G**

*MANN, B. PICKMAN, 1918 Sunderland Place, Washington, D. C. (22). 1874. **F I**

Mann, Thomas Wm., 35 Hampden St., Holyoke, Mass. (44). **D**

Manning, Charles H., U. S. N., Manchester, N. H. (35). **D**

Manning, J. Woodward, 1150 Tremont Building, Boston, Mass. (47). **G**

Manning, Warren H., Brookline, Mass. (31). **E F H**

Mansfield, Albert K., 125 Lincoln Ave., Salem, Ohio. (51). **D**

Manson, Marsden, Comm'r of Public Works, 2010 Gough St., San Francisco, Cal. (51). **D**

Mapes, Charles Victor, 60 W. 40th St., New York, N. Y. (37). **C**

Marble, J. Russel, Worcester, Mass. (31). **C E**

MARBLE, MANTON, Bedford, N. Y. (36).

Marble, Milton M., Instructor in Physics, Hillhouse High School, New Haven, Conn. (50). **B**

Marble, Miss Sarah, Woonsocket,, R. I. (29). **C**

Marc, Theophilus M., 359 Produce Exchange, New York, N. Y. (49).

*Marindin, Henry Louis, U. S. C. and G. Survey, Washington, D. C. (40). 1898. **E**

*Mark, Prof. E. H., Superintendent of Public Schools, Center and Walnut Sts., Louisville, Ky. (39). 1893. **B**

*Mark, Edward Laurens, Director Zoological Laboratory, Harvard University, Cambridge, Mass. (50). 1901. **F**

Markham, George Dickson, 4961 Berlin Ave., St. Louis, Mo. (50).
Marks, Louis B., 687 Broadway, New York, N. Y. (50).
Marks, William Dennis, C. E., The Art Club, Philadelphia, Pa. (50). **I**
Marlatt, Miss Abby L., Manual Training High School, Providence, R. I. (48).
*Marlatt, Charles L., U. S. Department Agriculture, Washington, D. C. (40). 1895. **F**
Marlow, Frank William, M. D., 200 Highland St., Syracuse, N. Y. (50). **F H I K**
Marple, Charles A., 743 Third Ave., Louisville, Ky. (39). **B**
Marsden, Samuel, 1015 N. Leffengwell Ave., St. Louis, Mo. (27). **A D.**
*Marsh, C. Dwight, Ripon, Wis. (34). 1893. **E F**
Marsh, James P., M. D., 1828 5th Ave., Troy, N. Y. (51). **K**
Marshall, Clara, M. D., 1712 Locust St., Philadelphia, Pa. (51). **K**
Marshall, Horace Miller, U. S. Engineer Office, Vicksburg, Miss. (51). **D**
Marsters, Vernon, Indiana University, Bloomington, Ind. (49).
Marston, Edwin S., 291 Clinton Ave., Brooklyn, N. Y. (50).
*Martin, Artemas, Ph. D., LL.D., U. S. Coast and Geodetic Survey, Washington, D. C. (38). 1890. **A**
*Martin, Daniel S., 126 Macon St., Brooklyn, N. Y. (23). 1879. **E F**
Martin, F. W., Ph. D., Analytical and Consulting Chemist, Lynchburg, Va. (49). **C**
Martin, William Lyon, Augusta, Ga. (50). **H**
*Marvin, C. F., U. S. Weather Bureau, Washington, D. C. (39). 1892. **B**
*Marvin, Frank O., Dean School of Engineering, University of Kansas, Lawrence, Kan. (35). 1894. **D**
Marvin, Harry Norton, 841 Broadway, New York, N. Y. (50). **D**
Marvin, Joseph B., M. D., LL.D., President Kentucky University, Louisville, Ky. (51). **I**
Marvin, Walter T., 36 Knox St., Cleveland, Ohio. (50). **H I**
Mason, Amos Lawrence, M. D., Physician to Boston City Hospital, 265 Clarendon St., Boston, Mass. (50). **K**
Mason, Lewis D., M. D., 171 Joralemon St., Brooklyn, N. Y. (51). **K**
Mason, Miss Nellie M., Teacher of Science, Abbot Academy, Andover, Mass. (50). **B C**
*Mason, Otis T., U. S. National Museum, Washington, D. C. (25). 1877. **H**
*Mason, Dr. William P., Rensselaer Polytechnic Inst., Troy, N. Y. (31). 1886. **C**
Massey, Wilbur Fisk, Botanist and Horticulturist, Agricultural Exper. Station, Raleigh, N. C. (51). **G**

Matas, Rudolph, M. D., Professor of Surgery, Tulane University, New Orleans, La. (50). **H K**

Mateer, Horace N., M. D., Wooster, Ohio. (36). **E F**

Mathews, John A., Ph. D., Analyst and Consulting Chemist, Columbia University, New York, N. Y. (50). **C E**

Mathews, Miss Mary Elizabeth, Foster Hall, University of Chicago, Chicago, Ill. (41). **F**

Matlack, Charles, "Hidden Hearth," Matunuck, R. I. (27). **I**

Matlack, Ellwood V., Sec'y and Mgr. Laclede Power Co., St. Louis, Mo. (50). **D**

Matthews, Albert, 145 Beacon St., Boston, Mass. (51). **H**

Matthews, Rodolph, D. D. S., 128 N. Main St., Wichita, Kansas. (50). **C F**

*Matthews, Dr. Washington, 1262 N. H. Ave., Washington, D. C. (37). 1888. **H**

Mattison, Fitch, C. E., M. D., Stowell Building, Pasadena, Cal. (51). **K**

Mattoon, A. M., Scott Observatory of Park College, Parkville, Mo. (47). **A**

Maxon, William R., U. S. National Museum, Washington, D. C. (49).

Maxwell, Fred. Baldwin, Ph. D., 308 Franklin Ave., River Forest, Oak Park P. O., Ill. (51). **F**

Maxwell, George H., Chairman Executive Committee, National Irrigation Association, 1827 Phelps Place, Washington, D. C. (50). **E**

Maxwell, Hu., Treasurer Transallegheny Historical Society, Morgantown, W. Va. (50). **E**

*Mayer, Alfred Goldsborough, S. D., M. E., Museum Brooklyn Institute, Eastern Parkway, Brooklyn, N. Y. (47). 1900. **F**

Maynard, George C., 1407 15th St., Washington, D. C. (35). **B D**

Maynard, Washburn, Captain U. S. N., Light House Board, Treasury Department, Washington, D. C. (33). **B**

Mead, Elwood, Consulting Civil Engineer, Washington, D. C. (51). **D**

Means, James, 196 Beacon St., Boston, Mass. (47).

*Mearns, Dr. Edgar A., U. S. A., Fort Adams, Newport, R. I. (49). 1901. **K**

Medsger, Oliver P., Jacob's Creek, Pa. (50). **G**

Meehan, S. Mendelson, Germantown, Philadelphia, Pa. (51). **G**

*Mees, Prof. Carl Leo, Rose Polytechnic Institute, Terre Haute, Ind. (24). 1876. **B C**

*Mell, P. H., Prof. of Geology and Botany, Polytechnic Institute, Auburn, Ala. (39). 1895. **E G**

Mellen, Edwin D., Manufacturer, 1590 Massachusetts Ave., Cambridge, Mass. (51). **D**

Mellor, Alfred, President of the Mellor and Rittenhouse Co., 2130 Mt. Vernon St., Philadelphia, Pa. (51).

Mellor, Charles C., 319 Fifth Ave., Pittsburg, Pa. (38).

*Meltzer, S. J., M. D., 166 West 126th St., New York, N. Y. (49). 1901. **K**

*Mendenhall, Charles E., Ph. D., University of Wisconsin, Madison, Wis. (48). 1900. **B**

*Mendenhall, T. C., Worcester, Mass. (20). 1874. **B**

Menninger, Charles Frederic, M. D., 1251 Topeka Ave., Topeka, Kan. (50). **F G K**

*Mercer, H. C., Doylestown, Pa. (41). 1893. **H**

Mercer, William Fairfield, Ph. D., Professor of Biology, Ohio University, Athens, Ohio. (50). **F**

*Merriam, Dr. C. Hart, U. S. Department Agriculture, Washington, D. C. (49). 1900. **F**

Merrill, Earle Abbott, 26 Cortlandt St., New York, N. Y. (50). **D**

Merrill, Elmer Drew., U. S. Dept. Agriculture, Washington, D. C. (50). **G**

*Merrill, Frederick J. H., Ph. D., New York State Museum, Albany, N. Y. (35). 1887. **E**

Merrill, Joseph Francis, Ph. D., Professor of Physics and Electrical Engineering, University of Utah, Salt Lake City, Utah. (50). **B D**

Merrill, Lucius Herbert, Professor of Biological Chemistry, University of Maine, Orono, Maine. (50). **C**

Merrill, Payson, 111 Broadway, New York, N. Y. (50).

Merrill, Mrs. Winifred Edgerton, Ph. D., 268 State St., Albany, N. Y. (55). **A**

*Merriman, C. C., 1910 Surf St., Lake View, Chicago, Ill. (29). 1880. **F**

*Merriman, Mansfield, Lehigh University, So. Bethlehem, Pa. (32). 1885. **A D I**

*Merritt, Ernest, Cornell University, Ithaca, N. Y. (33). 1890. **B**

Merrow, Miss Harriet L., Rhode Island College of Agriculture and Mechanic Arts, Kingston, R. I. (44).

Merryweather, George N., 639 Forest Ave., Avondale, Cincinnati, Ohio. (30). **F H**

Mershon, Ralph D., Consulting Enigneer, 621 Broadway, New York, N. Y. (50). **D**

*Metcalf, Maynard M., Ph. D., Professor of Biology, The Woman's College, Baltimore, Md. (50). 1901. **F**

Metcalf, Orlando, 424 Telephone Building, Pittsburg, Pa. (35). **D**

*Metcalf, William, Pittsburg, Pa. (33). 1894. **D**

Metcalf, Wilmot V., Professor of Chemistry and Physics, Carleton College, Northfield, Minn. (50). **B C**

Metcalfe, Captain Henry, 143 Liberty St., New York, N. Y. (50).

*Metzler, William H., Ph. D., Syracuse University, Syracuse, N. Y. (45). 1899. **A**

Meyer, John Franklin, Professor of Physics and Chemistry in Lower Merion High School, Ardmore, Pa. (51). **B**

*Meyer, Max, Ph. D., Professor of Psychology, University of Missouri, Columbia, Mo. (49). 1901. **H I**

*Mezes, Sidney Edward, Professor of Philosophy, University of Texas, Austin, Texas. (50). 1901. **I**

*Michael, Mrs. Helen Abbott, 35 West Cedar St., Boston, Mass. (33) 1885. **C F**

*Michelson, Prof. A. A., Chicago University, Chicago, Ill. (26). 1879. **B**

Miles, Mrs. Cornelia, Principal of Broadway School, 1544 Franklin St., Denver, Colo. (50). **G**

Miles, Francis T., M. D., 514 Cathedral St., Baltimore, Md. (50). **F K**

Milham, Willis I., Williams College, Williamstown, Mass. (47). **A B**

Millar, John M., Escanaba, Mich. (50).

Millard, Charles Sterling, Engineer Maintenance of Way, P. & P. U. Ry., Peoria, Ill. (51). **D**

Miller, Armand R., Professor of Chemistry, Manual Training High School, Kansas City, Mo. (50). **C**

*Miller, Prof. Arthur M., State College, Lexington, Ky. (45). 1898. **E**

Miller, Benjamin LeRoy, Johns Hopkins Univ., Baltimore, Md. (50). **E**

*Miller, Prof. Dayton C., Case School of Applied Science, Cleveland, Ohio. (44). 1898. **B**

MILLER, EDGAR G., 213 E. German St., Baltimore, Md. (29). **A E F**

*Miller, Edmund H., Ph. D., Columbia University, New York, N. Y. (50). 1901. **C**

*Miller, Ephraim, Professor of Mathematics and Astronomy, State University, Lawrence, Kan. (50). 1901. **A**

Miller, Prof. Frank E., Otterbein University, Westerville, Ohio. (44). **A**

Miller, Fred. J., Editor of "American Machinist," 34 Beech St., E. Orange, N. J. (51). **D**

*Miller, George A., Ph. D., Stanford University, Cal. (46). 1898. **A**

Miller, George N., M. D., 811 Madison Ave., New York, N. Y. (50). **K**

Miller, Gerrit S., U. S. Natl. Museum, Washington, D. C. (51). **F**

Miller, Henry Huntington, Mining and Metallurgical Engineer and Chemist, San Nicholas del Oro, Estado de Guerrero, Mex. (50). **C D E**

Miller, Herbert Stanley, Electrical Engineer, 1025 East Jersey St., Elizabeth, N. J. (50). **D**

Miller, Horace George, M. D., 189 Bowen St., Providence, R. I. (51). **K**

Miller, James Shannon, Professor of Mathematics, Emory and Henry College, Emory, Va. (51). **A B**

Miller, John A., 2500 Park Ave., Cairo, Ill. (22). **D**

Miller, John Craig, M. D., Professor of Natural Science, Lincoln University, Pa. (50). **B C F K**

Miller, Miss Louise Klein, School of Practical Agriculture, Briarcliff Manor, N. Y. (50). **I**

Miller, P. Schuyler, Mt. Prospect Laboratory, Flatbush Ave., Brooklyn, N. Y. (46). **C**

Miller, Pleasant T., 816 No. 9th St., Temple, Texas. (50).

*Miller, Prof. William S., University of Wisconsin, Madison, Wis. (42). 1894. **F**

Millis, John, Major of Engineers, U. S. A., U. S. Engineer's Office, Seattle, Wash. (48). **A B D E**

*Mills, Prof. James, Ontario Agricultural College, Guelph, Ontario, Can. (31). 1895. **C I**

Mills, Samuel C., Newburgh, N. Y. (50). **I**

*Mills, Prof. Wesley, McGill University, Montreal, Can. (31). 1886. **F H.**

Mills, William C., Orton Hall, Ohio State University, Columbus, Ohio. (48).

Milne, David, 2030 Walnut St., Philadelphia, Pa. (51).

Minns, Miss S., 14 Louisburg Square, Boston, Mass. (32).

*Minot, Charles Sedgwick, M. D., Harvard Medical School, Boston, Mass. (28). 1880. **F**

Mitchell, Andrew S., Analytical and Consulting Chemist, State Analyst, 220 Greenbush St., Milwaukee Wis. (51). **C**

Mitchell, Edward, 44 Wall St., New York, N. Y. (50).

Mitchell, Henry Bedinger, Tutor in Mathematics, Columbia University, New York, N. Y. (50). **A**

Mitchell, James, Newburgh, N. Y. (50). **A**

Mitchell, Roland G., 141 Water St., New York, N. Y. (50).

Mitchell, William Francis, M. D., Lancaster, Mo. (51). **K**

Mixer, Chas. Adam, Civil Engineer, Resident Engineer, Rumford Falls Power Co., Rumford Falls, Maine. (51). **D**

Mixer, Fred. K., 427 Delaware Ave., Buffalo, N. Y. (35). **E**

Moenkhaus, Wm. J., Bloomington, Ind. (51).

Mohler, John F., 127 S. College St., Carlisle, Pa. (44). **B**

Mohr, Charles, M. D., Professor of Materia Medica and Therapeutics, Hahnemann Medical College and Hospital, Philadelphia, Pa. (51). **K**

Mohr, Louis, M. E., 32 Illinois St., Chicago, Ill. (50). **A D**

*Moler, Geo. S., 106 University Ave., Ithaca, N. Y. (38). 1892.

Molera, E. J., Civil Engineer, 606 Clay St., San Francisco, Cal. (50). **D**

Molitor, David, Civil and Consulting Engineer, 125 Park Ave., Fond du Lac, Wis. (51). **C D**

Molitor, Frederic Albert, Little Rock, Ark. (51). **D**

Momsen, Hart, Chief Clerk, Div. of Agric. Census Office, Washington, D. C. (50). **I**

Monfort, Wilson F., Marietta College, Marietta, Ohio. (48). **C**

Monroe, Joseph E., Professor of Physics and Chemistry, Montana State Normal School, Dillon, Mont. (50). **B C**

*Monroe, Will S., State Normal School, Westfield, Mass. (49). 1901. **H**

Montgomery, Edmund, M. D., Hemstead, Texas. (50). **F K**

Montgomery, Edmund B., M. D., 134 North 8th St., Quincy, Ill. (51). **K**

Montgomery, James H., Meadville, Pa. (50).

Moody, Lucius W., New Haven, Conn. (43). **H**

Moody, Mrs. Mary B., M. D., Fair Haven Heights, New Haven, Conn. (25). **E F**

*Moody, Robert O., M. D., Hearst Anatomical Laboratory, San Francisco, Cal. (35). 1892. **F**

Moody, William Albion, Professor of Mathematics, Bowdoin College, Brunswick, Maine. (50). **A**

Moore, Mrs. A. H., Sawyerville, P. Q., Canada. (32). **H**

*Moore, Burton E., University of Nebraska, Lincoln, Neb. (41). 1899. **B**

Moore, Charles James, E. M., P. O. Box 548, Cripple Creek, Colo. (50), **D E**

*Moore, Clarence B., 1321 Locust St., Philadelphia, Pa. (44). 1897. **H**

Moore, Ernest Carroll, Ph. D., Instructor in Philosophy, University of California, Berkeley, Cal. (50). **I**

Moore, Geo. D., Ph. D., 201 Sailsbury St., Worcester, Mass. (40).

*Moore, George Thomas, U. S. Dept. Agriculture, Washington, D. C. (49). 1901. **G**

*Moore, J. W., M. D., Lafayette College, Easton, Pa. (22). 1874. **A B D**

Moore, Philip North, Geologist and Mining Engineer, 121 Laclede Bldg., St. Louis, Mo. (50). **E**

Moore, Robert, Civil Engineer, 61 Vandeventer Place, St. Louis, Mo. (51). **D**

Moore, Stanley H., Manual Training High School, Kansas City, Mo. (50). **A D**

*Moore, Willis L., Chief of the Weather Bureau, U. S. Dept. Agriculture, Washington, D. C. (44). 1897. **B**

*Moorehead, Warren K., Curator of Museum, Phillips Academy, Andover, Mass. (38). 1890. **H**

Morgan, H. A., Professor of Zoology and Entomology, State University, Baton Rouge, La. (50). **F**

Morgan, Wm. F., Short Hills, N. J., (27).

*Morison, George Shattuck, C. E., 49 Wall St., New York, N. Y. (50). 1901. **D**

*Morley, Prof. Edward W., Adelbert College, Cleveland, Ohio. (18). 1876. **B C E**

Morrey, Charles B., Ohio State University, Columbus, Ohio. (48). **F**

Morris, F. W., Villa Nova, Pa. (51).

Morris, Henry L., 16 Exchange Place, New York, N. Y. (49).

Morris, Newbold, 52 E. 72d St., New York, N. Y. (49).

Morris, Russell Love, Professor of Civil and Mining Engineering, West Virginia State University, Morgantown, W. Va. (50). **D**

Morrison, Gilbert B., 2510 Perry Ave., Kansas City, Mo. (48). **B C I**

Morrison, Thomas, Manager, Edgar Thomson Steel Works, Braddock, Pa. (51). **D**

Morse, Albert P., Wellesley, Mass. (50). **F**

*Morse, E. S., Salem, Mass. (18). 1874. **F H**

Morse, Fred. W., Prof. of Organic Chemistry, New Hampshire College, Durham, N. H. (51). **C**

Morse, Max W., Biological Hall, Ohio State University, Columbus, Ohio. (51). **F**

Morse, Willard S., Apartado "A," Aguascalientes, Mexico, (50). **C D E**

Mortensen, Casper, Box 27, Schenectady, N. Y. (51).

Morton, James F., Andover, N. H. (50).

Moseley, Edwin L., High School, Sandusky, Ohio. (34).

*Moser, Jefferson F., Commander U. S. N., Commanding U. S. S. "Pensacola," Station D, San Francisco, Cal. (28). 1889. **E**

Moses, Prof. Alfred J., Columbia University, New York, N. Y. (49).

*Moses, Dr. Thomas F., Worcester Lane, Waltham, Mass. (25). 1883. **F H**

Mosman, Alonzo T., U. S. Coast and Geodetic Survey, Washington, D. C. (51). **D**

*Mottier, David M., Ph. D., Professor of Botany, University of Indiana, Bloomington, Ind. (50). 1901. **F G K**

Motter, Murray Galt, M. D., Medical School, Georgetown University, Washington, D. C. (51). **K**

*Moulton, Forest Ray, Ph. D., Instructor in Celestial Mechanics, University of Chicago, Chicago, Ill. (50). 1901. **A**

Mount, William D., M. E., General Superintendent, Mathieson Alkali Works, Saltville, Va. (51). **D**

Mowry, Wm. A., 17 Riverside Square, Hyde Park, Mass. (29). **I**

Moyer, Harold N., M. D., 103 State St., Chicago, Ill. (51). **K**

Moyer, Lycurgus R., C. E., Montevideo, Minn. (50). **D G**

Muir, John J., Manager, Natl. Steel Casting Co., 345 W. Wayne St., Fort Wayne, Ind. (51). **D**

*Muir, John, Martinez, Cal. (22). 1900. **G**

Mulford, Miss A. Isabel, Missouri Botanical Garden, St. Louis, Mo. (45). **G**

*Mulliken, Samuel P., Mass. Inst. Technology, Boston, Mass. (43). 1899.

Muncaster, Stewart Brown, M. D., 907 Sixteenth St. N.W., Washington, D. C. (51). **K**

Munro, John Cummings, M. D., Instructor in Surgery, Harvard Medical School, Boston, Mass. (50). **F K**

*Munroe, Prof. C. E., Columbian University, Washington, D. C. (22). 1874. **C**

Munson, T. V., Nurseryman, Denison, Texas. (51). **G**

*Munson, Welton M., Prof. of Horticulture, The University of Maine, Orono, Me. (41). 1899. **F G**

*Munsterberg, Hugo, Harvard University, Cambridge, Mass. (47). 1898.

*Murdoch, John, Public Library, Boston, Mass. (29). 1886. **F H**

Murdock, George J., Mechanician and Inventor, 248 Sixth Ave., Newark, N. J. (50). **A D**

Murray, Charles R., 5636 Washington Ave., Chicago, Ill. (47). **D**

*Murray, Daniel A., Ph. D., Dalhousie College, Halifax, N. S. (47). 1899. **A**

Murray, Robert Drake, M. D., Surgeon Marine Hospital Service, Key West, Fla. (50). **K**

Myer, Mrs. Mary H., 44 Mt. Vernon St., Boston, Mass. (44).

Myers, Edward W., North Carolina Geological Survey, Chapel Hill, N. C. (49).

*Myers, Prof. Geo. W., 6026 Monroe Ave., Chicago, Ill. (46). 1899. **A**

*Myers, William S., M. Sc., F. C. S., Director Nitrate of Soda Propaganda, 12 John St., New York, N. Y. (43). 1898. **C**

Myres, John L., M. A., F. S. A., Christ Church, Oxford, England. (46). **H**

*Nagle, Prof. James C., A. and M. College, College Station, Texas. (40). 1893. **B D**

Nash, Geo. V., Norwood Heights, Williamsbridge, New York, N. Y. (47).

*Nason, Frank L., West Haven, Conn. (36). 1888. **E**

*Needham, James G., Lake Forest College, Lake Forest, Ill. (45). 1898. **F**

*Nef, J. U., University of Chicago, Chicago, Ill. (39). 1891. **C**

Neff, Isaac E., Principal of High School, Kankakee, Ill. (51).

Negley, Henry Hillis, 600 N. Negley Ave., Pittsburg, Pa. (50). **G**

Neiler, Samuel Graham, Consulting and Designing Engineer, 1409 Manhattan Bldg., Chicago, Ill. (50). **D**

Neilson, John, Larchmont, N. Y. (50).

Neilson, Walter Hopper, M. D., Milwaukee, Wis. (51). **K**

Nelson, Aven, Professor of Biology, University of Wyoming, Laramie, Wyoming. (50). **F**

*Nelson, Prof. A. B., Centre College, Danville, Ky. (30). 1882. **A B D**

Nelson, Wm., Rooms 7 and 8, Paterson Natl. Bank, Paterson, N. J. (42).

Nelson, Wolfred, C. M., M. D., F. R. G. S., Astor House, New York, N. Y. (35). **E H**

Nesmith, Henry E., Jr., 28 South St., New York, N. Y. (30). **B C F**

Ness, Helge, Professor of Botany, Agric. & Mech. College, College Station, Texas. (50). **G**

*Newcomb, Harry T., 137 S. 5th St., Philadelphia, Pa. (47). 1898. **I**

*Newcomb, Prof. S., 1620 P St. N.W., Washington, D. C. (13). 1874. **A B**

*Newcombe, Frederick Charles, 1021 E. University Ave., Ann Arbor, Mich. (43). 1896. **G**

*Newell, F. H., U. S. Geol. Survey, Washington, D. C. (40). 1893. **E**

*Newell, William Wells, Editor "Journal American Folk Lore," Cambridge, Mass. (41). 1893. **H**

Newson, John F., Stanford University, Cal. (44). **E**

*Newson, Henry Byran, Assistant Professor of Mathematics, University of Kansas, Lawrence, Kansas. (50). 1901. **A**

Nichols, Austin P., 4 Highland Ave., Haverhill, Mass. (37).

*Nichols, Ernest Fox, Dartmouth College, Hanover, N. H. (41). 1893. **B**

*Nichols, E. L., Ph. D., Cornell University, Ithaca, N. Y. (28). 1881. **B C**

Nichols, Othniel Foster, C. E., Principal Assistant Engineer, New East River Bridge, 42 Gates Ave., Brooklyn, N. Y. (51). **D**

Nicola, Frank F., Cor. Wood and Sixth Aves., Pittsburg, Pa. (50). **D**

Niles, Robert Lossing, 66 Broadway, New York, N. Y. (47). **B C D**

*Niles, Wm. H., Mass. Inst. Tech., Boston, Mass. (16). 1874. **E**

*Nipher, Prof. Francis E., Washington University, St. Louis, Mo. (24). 1876. **B**

*Nolan, Edw. J., M. D., Acad. Nat. Sciences, Philadelphia, Pa. (29). 1890. **F**

*Norton, J. B. S., College Park, Md. (47). 1899. **G**

*Norton, Thomas H., U. S. Consul, Harput, Turkey in Asia. (35). 1887. **C**

Notestein, F. N., Professor of Mathematics and Physics, Alma College, Alma, Mich. (50). **A B**

Nott, Charles Palmer, Palo Alto, Cal. (50).
*Novy, Dr. Frederick G., Univ. of Michigan, Ann Arbor, Mich. (36). 1889. **C**
*Noyes, Prof. Arthur A., Mass. Inst. Technology, Boston, Mass (45). 1897. **C**
Noyes, Isaac Pitman, 409 4th St. S.E., Washington, D. C. (49).
*Noyes, Miss Mary Chilton, Ph. D., Lake Erie College, Painesville, Ohio. (43). 1896. **B**
Noyes, Theodore Richards, M. D., Kenwood, N. Y. (51).
*Noyes, Prof. Wm. A., Rose Polytechnic Institute, Terre Haute, Ind. (23). 1885. **C**
Nunn, R. J., M. D., 119 York St., Savannah, Ga. (33). **B H**
*Nuttall, Mrs. Zelia, Peabody Museum, Cambridge, Mass. (35). 1887. **H**
*Nutting, Prof. Charles C., State University of Iowa, Iowa City, Iowa. (40). 1892. **F**
Nylander, Olof O., Box 165, Caribou, Maine. (50). **F**
Oakes, F. James, 58 Stone St., New York, N. Y. (49).
*Oberholser, Harry Church, Div. Biological Survey, U. S. Dept. Agriculture, Washington, D. C. (46). 1898. **E F H**
O'Brien, Matthew Watson, M. D., 908 Cameron St., Alexandria, Va. (51). **K**
Obrig, Adolph, "The Dakota," 1 W. 72d St., New York, N. Y. (50).
O'Connor, Haldeman, 13 North Front St., Harrisburg, Pa. (51). **H**
Oestlund, Oscar W., Entomologist, State University, Minneapolis, Minn. (50). **F**
Offinger, Martin H., M. E., Director Electro-Mech. Dept., Buffalo Commercial and Electro. Mech. Institute, Buffalo, N. Y. (50). **D**
Ogden, Henry Vining, M. D., 141 Wisconsin St., Milwaukee, Wis. (51). **F K**
*Ogden, Herbert G., U. S. C. and G. Survey, Washington, D. C. (38) 1891. **E**
Ogden, Herbert Gouverneur, Jr., M. E., 1610 Riggs Place, Washington, D. C. (50). **B D**
Ogilvie, Miss Ida Helen, Sherman Square Hotel, New York, N. Y. (51). **E**
Oglevee, Christopher S., Instructor in Biology, Lincoln University, Lincoln, Ill. (50). **F**
O'Harra, Prof. Cleophas Cisney, State School of Mines, Rapid City, So. Dak. (49).
Olcott, George M., 86 William St., New York, N. Y. (49).
Oldfield, Anthony M., M. D., Harbor Beach, Mich. (51). **K**
Olive, Edgar W., University Museum, Cambridge, Mass. (48). **G**
Olmsted, John Charles, Landscape Architect, 16 Warren St., Brookline, Mass. (50). **E I**
Olsen, Tinius, Manufacturer, 500 N. 12th St., Philadelphia, Pa. (51). **D**

Oothout, William, Chemist, Metallurgist and Mining Engineer, Santa Barbara, Cal. (50). **C D E**

Opdyke, William S., 20 Nassau St., New York, N. Y. (49).

*Orleman, Miss Daisy M., M. D., Peekskill Military Academy, Peekskill, N. Y. (40). 1897. **F**

*Orleman, Col. Louis H., Ph. D., Principal Peekskill Military Academy, Peekskill, N. Y. (47). 1900.

*Orr, William, Jr., 30 Firglade Ave., Springfield, Mass. (39). 1895. **B F**

Ortmann, Arnold Edward, Ph. D., Curator of Invertebrate Paleontology, Princeton University, 8 Maple St., Princeton, N. J. (51).

*Orton, Edward, Jr., The Normandie, Columbus, Ohio. (48). 1900. **E**

*Orton, W. A., Div. of Veg. Phys. and Path., U. S. Dept. Agriculture, Washington, D. C. (49). **G**

Osborn, Frederick A., Professor of Physics, Olivet Coll., Olivet, Mich. (50). **B**

*Osborn, Henry F., Columbia University, New York, N. Y. (29). 1883. **F**

*Osborn, Herbert, Ohio State University, Columbus, Ohio. (32). 1884. **F**

Osborn, Mrs. W. H., 32 Park Ave., New York, N. Y. (50).

Osborne, Frank Russell, Professor of Physics, John B. Stetson Universty, DeLand, Fla. (50). **B**

Osborne, George Abbott, Professor of Mathematics, Mass. Inst. of Technology, Boston, Mass. (50). **A**

Osborne, Loyall Allen, E. E., Mgr. of Works of Westinghouse Electric and Mfg. Co., Pittsburg, Pa. (50). **D**

Osburn, Raymond Carroll, Professor of Zoology, Fargo College, Fargo, North Dakota. (50). **F**

Osgood, Joseph B. F., Salem, Mass. (31).

Osler, William, M. D., Johns Hopkins University, Baltimore, Md. (51). **F K**

*Osmond, Prof. I. Thornton, State College, Pa. (33). 1889. **A B C**

O'Sullivan, Rev. Denis T., S. J., 761 Harrison St., Boston, Mass. (40). **A B**

Otis, Spencer, 1502 Fisher Building, Chicago, Ill. (51). **D**

Owen, Charles Lorin, Field Columbian Museum, Chicago, Ill. (50). **H**

Owen, Prof. D. A., Franklin, Ind. (34). **E**

Owen, Miss Juliette A., 306 N. Ninth St., St. Joseph, Mo. (50). **F**

Owen, Miss Luella Agnes, 306 N. Ninth St., St. Joseph, Mo. (47). **E**

Owen, Miss Mary Alicia, 306 N. Ninth St., St. Joseph, Mo. (50). **H**

Owens, William Gundy, Professor of Chemistry and Physics, Bucknell University, Lewisburg, Pa. (50). **B C**

*Packard, Dr. A. S., 115 Angell St., Providence, R. I. (16). 1875. **E F**

Packard, Frederick A., M. D., 258 So. 18th St., Philadelphia, Pa. (51). **K**

Packard, George Arthur, Metallurgist and Mining Engineer, 18 Lafayette St., Wakefield, Mass. (50). **E**

Packard, John C., 14 Searle Ave., Brookline, Mass. (48). **B**

*Paddock, Wendell, Professor of Botany and Horticulture, Agricultural College, Fort Collins, Colo. (50). 1901. **G**

PAGE, CLARENCE V., Civil and Mining Engineer, P. O. Box 922, Butte, Montana. (51). **D E**

PAGE, DR. DUDLEY L., 46 Merrimack St., Lowell, Mass. (33). **F**

PAGE, MRS. NELLIE K., 46 Merrimack St., Lowell, Mass. (33). **F**

*Paine, Cyrus F., 242 East Ave., Rochester, N. Y. (12). 1874. **A B**

Paine, Robert Treat, President, Associated Charities of Boston, 6 Joy St., Boston, Mass. (50). **I**

Painter, Charles Fairbank, M. D., 372 Mulboro St., Boston, Mass. (50). **F K**

*Palache, Charles, University Museum, Cambridge, Mass. (44). 1896. **E**

*Palmer, Prof. Albert De Forest, Brown University, Providence, R. I. (47). 1900. **B**

*Palmer, Prof. Arthur William, 804 W. Green St., Urbana, Ill. (46). 1898. **C**

*Palmer, Charles Skeele, Ph. D., Professor of Chemistry, University of Colorado, Boulder, Colo. (50). 1901. **C**

Palmer, Dr. Edward, Botanical Div., U. S. Dept. Agriculture, Washington, D. C. (22). **H**

Palmer, Walter Keifer, 411 New York Life Bldg., Kansas City, Mo. (47). **B D**

Paltsits, Victor Hugo, Assistant Librarian, Lenox Library, New York, N. Y. (51).

*Pammel, Prof. L. H., Iowa Agricultural College, Ames, Ia. (39). 1892. **G**

PARISH, HENRY, 52 Wall St., New York, N. Y. (49).

*Park, Roswell, M. D., 510 Delaware Ave., Buffalo, N. Y. (45). 1901. **H K**

Park, William Hallock, M. D., 315 West 76th St., New York, N. Y. (51). **K**

Parker, Miss Florence, 10340 Longwood Ave., Chicago, Ill. (50). **E**

*Parker, George Howard, Assistant Professor of Zoology, Harvard University, Cambridge, Mass. (50). 1901, **F**

*Parker, Herschel C., 21 Fort Greene Place, Brooklyn, N. Y. (43). 1900. **C**

Parker, Horatio N., Biologist to Metropolitan Water Board, 456 Bloomfield Ave., Montclair, N. J. (50). **F**

Parker, J. B., M. D., U. S. N., U. S. Naval Home, Philadelphia, Pa. (50). **K**

Parker, Moses Greeley, M. D., 11 First St., Lowell, Mass. (47). **H**

Parker, Richard Alexander, C. E., E. M., 4 P. O. Square, Boston, Mass. (50). **D E**

Parker, William L., 339 Marlborough St., Boston, Mass. (50).

*PARKHURST, HENRY M., 173 Gates Ave., Brooklyn, N. Y. (23). 1874. **A**

*Parks, C. Wellman, Civil Engineer, U. S. N., Bureau of Navigation, Washington, D. C. (42). 1897.

Parmelee, H. P., 508 Mich. Trust Bldg., Grand Rapids, Mich. (42). **E H**

Parmly, C. Howard, C. E., Asst. Prof. of Physics, College of the City of New York, N. Y. (50). **B**

Parsell, Henry V. A., 31 E. 21st St., New York, N. Y. (49).

*Parsons, Prof. Charles Lathrop, Durham, N. H. (41). 1896.

Parsons, Mrs. Edwin, 326 W. 90th St., New York, N. Y. (50).

PARSONS, JOHN E., 111 Broadway, New York, N. Y. (36).

Pastorius, Charles Sharpless, Treasurer, Colo. Investment and Realty Co., P. O. Box 428, Colorado Springs, Colo. (51).

Paton, Stewart, M. D., 213 W. Monument St., Baltimore, Md. (50). **K**

Patrick, Frank, 601 Kansas Ave., Topeka, Kansas. (50).

Patten, John, Patten Vacuum Ice Co. Ltd., 19 Liberty St., New York, N. Y. (43).

Patten, Miss Juliet, 2212 R St. N.W., Washington, D. C. (49). **C F G**

Patterson, Charles H., Professor of English Language and Literature, University of West Virginia, Morgantown, W. Va. (51). **H**

Patterson, Mrs. Flora Wambaugh, U. S. Dept. Agriculture, Washington, D. C. (44). **G**

*Patterson, George W., Jr., 814 S. University Ave., Ann Arbor, Mich. (44). 1896.

*Patterson, Harry J., College Park, Md. (36). 1890. **C**

Patterson, Prof. James L., Chestnut Hill, Philadelphia, Pa. (45).

Pattison, Frank A., Consulting Electrical Engineer, 141 Broadway, New York, N. Y. (50). **D**

Patton, Arthur L., State Preparatory School, Boulder, Colo. (50). **B C**

*Patton, Horace B., Professor of Geology and Mineralogy, Colorado School of Mines, Golden, Colo. (37). 1901. **E**

Patton, John, Counsellor-at-law, 925 Mich. Trust Co. Bldg., Grand Rapids, Mich. (50). **I**

*Paul, Henry M., 2015 Kalorama Av., Washington, D. C. (33). 1885. **A B**

*Paulmier, Frederick Clark, N. Y. State Museum, Albany, N. Y. (47). 1901. F.

Pawling, Jesse, Jr., Instructor in Physics, Central High School, Philadelphia, Pa. (50). A B

Peabody, George Foster, 28 Monroe Place, Brooklyn, N. Y. (50).

Peabody, Mrs. Lucy E., 1430 Corona St., Denver, Colo. (50). H

Pearce, James Edwin, Principal of High School, 309 W. 10th St., Austin, Texas. (51). H

Pearson, Fred. Stark, Consulting Engineer, Room 840, Cable Bldg., 621 Broadway, New York, N. Y. (50). D

*Pearson, Raymond A., Asst. Chief Dairy Div., U. S. Dept. Agriculture, Washington, D. C. (49). 1901. F

Pease, Miss Clara A., Public High School, Hartford, Conn. (47). E

Peck, Frederick B., Lafayette College, Easton, Pa. (49).

Peck, George, M. D., U. S. N., 926 North Broad St., Elizabeth, N. J. (51). K

Peck, Mrs. John Hudson, 3 Irving Place, Troy, N. Y. (28).

Peck, W. A., C. E., 1643 Champa St., Denver, Colo. (19). E

*Peckham, Wheeler H., 80 Broadway, New York, N. Y. (36). 1901. I

*Peirce, Benjamin O., 305 Cabot St., Beverly, Mass. (47). 1898.

Peirce, Cyrus N., D. D. S., 3316 Powelton Ave., Philadelphia, Pa. (31). F

*Peirce, George James, Associate Professor of Plant Physiology, Stanford University, Cal. (44). 1897. G

Peirce, Harold, 331 Walnut St., Philadelphia, Pa. (33). H I

Pell, Mrs. Alfred, 15 East 35th St., New York, N. Y. (51).

Pendleton, Edward Waldo, 900 Union Trust Building, Detroit, Mich. (46). H I

Penfield, S. L., Prof. Yale University, New Haven, Conn. (51).

Pennell, William W., M. D., Fredericktown, Ohio. (51). K

Penniman, George H., 1071 Fifth Ave., New York, N. Y. (49).

*Pennington, Miss Mary Engle, Ph. D., 3908 Walnut St., Philadelphia, Pa. (47). 1900. C F G

Penrose, Charles B., M. D., 1720 Spruce St., Philadelphia, Pa. (51). B K

*Penrose, Dr. R. A. F., Jr., Ph. D., 460 Bullitt Building, Philadelphia, Pa. (38). 1890. E

*Pepper, George H., Amer. Mus. Nat. History, Central Park, New York, N. Y. (48). 1900. H

Perkins, Albert S., Teacher of Chemistry, Dorchester High School, 75 Milton Ave., Hyde Park, Mass. (50). C

Perkins, Arthur, 14 State St., Hartford, Conn. (31). A B

*Perkins, Prof. Charles Albert, University of Tennessee, Knoxville, Tenn. (47). 1900. B D

*Perkins, Prof. George H., Burlington, Vt. (17). 1882. E F H

Perrine, Miss Lura L., State Normal School, Valley City, No. Dak. (47). **E F G H**

*Perry, Arthur C., 226 Halsey St., Brooklyn, N. Y. (43). 1896. **A B**

Perry, Thomas Sergeant, Author, 312 Marlborough St., Back Bay, Boston, Mass. (50).

Peskind, Arnold, M. D., 1354 Willson Ave., Cleveland, Ohio. (51). **K**

Peters, Clayton A., Polytechnic Institute, Brooklyn, N. Y. (46). **G**

*Peters, Edw. T., P. O. Box 265, Washington, D. C. (33). 1889. **I**

Petersen, Niels Frederick, Plainview, Neb. (50). **I**

Peterson, Bertel, Genl. Mgr. Grand Central Mining Co., Ltd., Torres, Sonora, Mexico. (50). **D**

*Peterson, Frederick, M. D., 4 W. 50th St., New York, N. Y. (49). 1901. **K**

Peterson, Sidney, Brighton High School, Boston, Mass. (50). **C G**

Pétre, Axel, P. O. Box 1606, Philadelphia, Pa. (48). **D**

Pettee, Charles Holmes, Durham, N. H. (47). **A**

Pettee, Rev. J. T., Meriden, Conn. (39). **I**

*Pettee, Prof. Wm. H., 554 Thompson St., Ann Arbor, Mich. (24). 1875. **E**

Pettegrew, David Lyman, P. O. Box 75, Worcester, Mass. (44). **A**

Phelps, William Joshua, Mgr. The Phelps Co., Detroit, Mich. (50). **D I K**

Philips, Ferdinand, of Philips, Townsend & Co., Manufacturers, 4th & Glenwood Ave., Philadelphia, Pa. (51). **D**

*Phillips, Prof. Andrew W., 209 York St., New Haven, Conn. (24). 1879.

*Phillips, Prof. Francis C., Box 126, Allegheny, Pa. (36). 1889. **C**

Phillips, John S., 141 E. 25th St., New York, N. Y. (46).

PHIPPS, LAWRENCE COWLE, Carnegie Bldg., Pittsburg, Pa. (51). **D**

Pickel, Frank Welborn, Prof. of Biology, Univ. of Arkansas, Fayetteville, Ark. (71). **G**

*Pickering, Prof. Edward C., Director of Harvard Observatory, Cambridge, Mass. (18). 1875. **A B**

Pickett, Dr. Thomas E., Maysville, Ky. (25). **F H**

Pickett, William Douglas, Four Bear, Big Horn Co., Wyoming. (41). **D I**

Piel, G., 148 Riverside Drive, New York, N. Y. (50).

*PIERCE, NEWTON B., Pacific Coast Laboratory, U. S. Dept. Agriculture, Santa Ana, Cal. (49). 1901. **G**

*Pierce, Perry Benjamin, U. S. Patent Office, Washington, D. C. (40). 1895. **H**

Pierce, Sloan J., 512 Hickox Bldg., Cleveland, Ohio. (50). **E**

PIERREPONT, HENRY E., 216 Columbia Heights, Brooklyn, N. Y. (43).

Piersol, George A., Professor of Anatomy, University of Pennsylvania, Philadelphia, Pa. (50). **K**

Pietrzycki, Marcel, M. D., Starbuck, Wash. (51) I
Pilcher, James Evelyn, Ph. D., Professor of Sociology and Economics, Dickinson College, Carlisle, Pa. (50). I
Pilling, J. W., 1301 Massachusetts Ave. N.W., Washington, D. C. (40).
*Pillsbury, J. E., Commander U. S. N., U. S. S. "Prairie," care Postmaster, New York, N. Y. (33). 1898. B E
Pillsbury, John H., Prin. of The Waban School, Waban, Mass. (23). F H
*Pinchot, Gifford, Forester, U. S. Dept. Agriculture, Washington, D. C. (47). 1899. G
Pinchot, J. W., 1615 Rhode Island Ave. N.W., Washington, D. C. (50). G
Pinkerton, Andrew, Electrical Engineer, Vandergrift, Pa. (50). D
*Pinney, Mrs. Augusta Robinson, 350 Central St., Springfield, Mass. (44). F G
Pitkin, Lucius, 138 Pearl St., New York, N. Y. (29).
Pitner, Thomas J., M. D., Trustee Illinois College, Jacksonville, Ill. (51). K
Pitts, Thomas Dorsey, Naval Architect and Engineer, Room 1200, No. 52 Pine St., New York, N. Y. (51). D
Plant, Albert, 28 East 76th St., New York, N. Y. (50).
Platt, Hon. Thomas C., Uited States Senator, 49 Broadway, New York, N. Y. (49).
Platt, Walter B., M. D., 802 Cathedral St., Baltimore, Md. (50). K
Plimpton, George Arthur, 70 5th Ave., New York, N. Y. (47).
Plowman, Amon Benton, Greenville, Ohio. (50). B
*Pohlman, Dr. Julius, 404 Franklin St., Buffalo, N. Y. (32). 1884. E F
Pole, Arminius C., M. D., 2038 Madison Ave., Baltimore, Md. (51). K
*Pollard, Charles Louis, 1854 5th St. N.W., Washington, D. C. (44). 1899. G
Pollock, Horatio M., Ph. D., N. Y. State Civil Service Commission, Albany, N. Y. (50). F
Pomeroy, Charles Taylor, 55 Broad St., Newark, N. J. (43).
Porteous, John, 48 St. Stephen St., Boston, Mass. (22).
Porter, Miss Edna, 94 Russell Ave., Buffalo, N. Y. (41). F G
Porter, H. Hobart, Jr., Consulting Electrical and Mechanical Engineer, 31 Nassau St., New York, N. Y. (50). D
Porter, Henry K., Trustee of Carnegie Institute, 541 Wood St., Pittsburg, Pa. (50). D
Porter, J. Edward, Mfg. Chemist and Analyst, 8 Clinton Block, Syracuse, N. Y. (50). C
Porter, Miles F., M. D., 207 W. Wayne St., Ft. Wayne, Ind. (51). K
*Porter, W. Townsend, M. D., Assistant Professor of Physiology, Harvard Medical School, Boston, Mass. (50). 1901. K

*Post, Charles A., Bayport, Long Island, N. Y. (49). 1901. **A**

Post, Walter A., General Superintendent, Newport News Shipbuilding and Dry-dock Co., Newport News, Va. (51). **D**

Poteat, Wm. L., Wake Forest, N. C. (47). **F**

Potter, Richard B., M. D., West Palm Beach, Fla. (51). **K**

Potter, William Bancroft, Chief Engineer, Ry. Dept. G. E. Co., Schenectady, N. Y. (50). **D**

Powel, Colonel de Veaux, 28 Broadway, N. Y. (50).

Powell, George P., The Buckingham Hotel, cor. 50th St. and Fifth Ave., New York, N. Y. (49).

Powell, James, Mechanical Engineer, 2525 Spring Grove Ave., Cincinnati, Ohio. (51). **D**

*Powell, Major J. W., Director, Bureau of American Ethnology, Washington, D. C. (23). 1875. **E H**

Powell, Thomas, M. D., 215–217 Laughlin Bldg., Los Angeles, Cal. (41).

*Power, Frederick B., Ph. D., 6 King St., Snow Hill, London, E. C., England. (31). 1887. **C**

Prang, Louis, 45 Centre St., Roxbury, Mass. (29). **D**

Prather, Wm. L., Ph. D., President of the University of Texas, Austin, Texas. (50). **I**

Pratt, Alexander, Jr., 26 Bunnell St., Bridgeport, Conn. (50). **H I**

Pratt, Chas. W., Supt. City Schools, Augusta, Kans. (50). **F**

Pratt, Joseph Hyde, N. C. Geological Survey, Chapel Hill, N. C. (49). **E**

Prentiss, Daniel Webster, M. D., 1101 14th St. N.W., Washington, D. C. (50). **F K**

*Prentiss, Robert W., Professor of Mathematics and Astronomy, Rutgers College, New Brunswick, N. J. (40). 1891. **A**

*Prescott, Prof. Albert B., Ann Arbor, Mich. (23). 1875. **C**

Prescott, Samuel Cate, Instructor in Biology, Mass. Inst. Tech., Boston, Mass. (51). **K**

Price, Robert Henderson, Professor of Horticulture and Mycology, A. & M. College, College Station, Texas. (50). **F G**

Price, Thomas Malcolm, Assistant Chemist, Maryland Agricultural Exper. Sta., College Park, Md. (50). **C**

Price, Weston A. V., 2238 Euclid Ave., Cleveland, Ohio. (48). **B C**

Prince, J. Dyneley, 31 W. 38th St., New York, N. Y. (49).

Pritchard, Samuel Reynolds, Blacksburg, Va. (47). **D**

Pritchard, William Broaddus, M. D., 105 W. 73d St., New York, N. Y. (51). **K**

*Pritchard, Henry S., President Mass. Inst. Technology, Boston, Mass. (29). 1881. **A**

Probasco, John Buck, M. D., 175 E. Front St., Plainfield, N. J. (51). **K**

*Proctor, Miss Mary, 141 W. 47th St., New York, N. Y. (43). 1898. **A**

*Prosser, Charles S., Ohio State Univ., Columbus, Ohio. (33). 1891. E F

Proudfit, Alexander Couper, 40 Wall St., New York, N. Y. (47).

PRUYN, JOHN V. L., JR., Albany, N. Y. (29).

Pryer, Charles, New Rochelle, N. Y. (49).

Puffer, William L., Assistant Professor of Electrical Engineering, Mass. Institute of Technology, Boston, Mass. (50). D

Pulsifer, Mrs. C. L. B., Nonquitt, Mass. (33).

*Pulsifer, Wm. H., Nonquitt, Mass. (26). 1879. A H

*Pupin, Dr. M. I., Columbia University, New York, N. Y. (44). 1896. B

Purdue, Albert Homer, Professor of Geology, University of Arkansas, Fayetteville, Ark. (50). E

Purington, Miss Florence, B. S., Mount Holyoke College, South Hadley, Mass. (46). A

Puryear, Chas., Professor of Mathematics, Agric. and Mech. College, College Station, Tex. (51). A

Pusey, Charles W., M. E., President The Pusey & Jones Co., Wilmington, Del. (51). D

Putnam, Chas. P., M. D., 63 Marlborough St., Boston, Mass. (28).

Putnam, Miss Elizabeth D., 2013 Brady St., Davenport, Iowa. (45).

*Putnam, Prof. F. W., Peabody Museum, Cambridge, Mass. (10). 1874. H

Putnam, Henry St. Clair, Davenport, Iowa. (47).

Putnam, Mrs. Mary L. D., President of the Davenport Academy of Science, Davenport, Iowa. (50). H

Pyle, Miss Effie B., Teacher of Science, High School, Hiawatha, Kansas. (51). B C

Quackenbos, John D., M. D., 331 W. 28th St., New York, N. Y. (49).

Quintard, Edward A., Sewanee, Tenn., Supt. of Mines at Batopilas, Mexico. (50). E

*Ramaley, Francis, University of Colorado, Boulder, Colo. (45). 1899. G

Ramsey, Rolla Roy, 814 Conley Ave., Columbia, Mo. (50). B

Rand, C. F., M. D., 1228 15th St. N.W., Washington, D. C. (27). E H

Rand, Herbert Wilbur, Ph. D., Instructor in Zoology, Harvard University, Cambridge, Mass. (51). F

*Rand, Theodore D., Radnor, Pa. (47). 1901. E

Randall, Burton Alexander, M. D., 1717 Locust St., Philadelphia, Pa. (51). K

Randall, John E., Superintendent and Electrical Engineer, Columbia Inc. Lamp Co., St. Louis, Mo. (50). D

Randolph, Beverley S., Mining Supt. Consolidation Coal Co., Frostburg, Md. (50). D E

Randolph, Prof. L. S., Blacksburg, Va. (33). **D**

*Rane, Frank Wm., New Hampshire Agric. Exper. Station, Durham, N. H. (42). 1900. **G**

Rankin, Walter M., Professor of Invertebrate Zoology, Princeton University, Princeton, N. J. (51). **F**

Ransohoff, Joseph, M. D., Cincinnati, Ohio. (51). **K**

Ransome, Ernest Leslie, Concrete Engineer, 532 9th St., Brooklyn, N. Y. (51). **D**

*Rathbun, Richard, Smithsonian Institution, Washington, D. C. (40). 1892. **F**

Rau, Albert George, Principal Moravian Parochial School, 63 Broad St., Bethlehem, Pa. (50). **B E**

Raymer, George Sharp, E. M., Instructor in Mining, Harvard University, Cambridge, Mass. (50). **D E**

*Raymond, Rossiter W., 99 John St., New York, N. Y. (15). 1875. **E I**

*Raymond, William G., Rensselaer Polytechnic Institute, Troy, N. Y. (44). 1896. **D**

Reber, Samuel, Lieut. Col. U. S. A., Signal Corps, Headquarters of the Army, Washington, D. C. (50). **D**

Rèche, Miss Eugénie M., 31 Howell St., Rochester, N. Y. (41). **E H**

Reckefus, Chas. H., Jr., M. D., 506 N. 6th St., Philadelphia, Pa. (51). **K**

Redding, Allen C., Tybo, Nevada. (39). **C**

Redfield, William C., 3 Tennis Court, Brooklyn, N. Y. (44). **D**

Reed, Charles J., 3313 N. 16th St., Philadelphia, Pa. (34). **B C**

Reed, Hugh D., Ithaca, N. Y. (49).

Reed, Hon. James H., Amberson Ave., Pittsburg, Pa. (51). **I**

*Reed, John O., 907 Lincoln Ave., Ann Arbor, Mich. (44). 1898. **B**

Rees, H. P. Powell, 38 Park Row, New York, N. Y. (49).

*Rees, Prof. John K., Columbia University, New York, N. Y. (26). 1878. **A B E**

*Reese, Charles L., N. J. Zinc Co., Palmerton, Pa. (39). 1892. **C**

Reese, Herbert M., Mt. Hamilton, Cal. (49). **B**

*Reese, Jacob, 400 Chestnut St., Philadelphia, Pa. (33). 1891. **B D**

*Reid, Harry Fielding, Johns Hopkins University, Baltimore, Md. (36). 1893. **B**

*Reid, Hon. Whitelaw, 451 Madison Ave., New York, N. Y. (50). 1901. **I**

Reifsnyder, Samuel K., High School, Ocean Grove, N. J. (50). **I**

Reist, Henry G., Mechanical and Electrical Engineer, 5 South Church St., Schenectady, N. Y. (50). **D**

*Remsen, Prof. Ira, President Johns Hopkins University, Baltimore, Md. (22). 1875. **C**

Renninger, John S., M. D., Marshall, Minn. (31). **C F**

Replogle, Mark A., M. E., Hydraulic Engineer, 111 S. Walnut St., Akron, Ohio. (51). **D**

*Reuter, Dr. Ludwig H., 443 East 87th St., New York, N. Y. (46). 1898. C

Reynolds, Dudley Sharpe, M. D., Louisville, Ky. (50). K

Reynolds, George, P. O. Box B, Salt Lake City, Utah. (44). H

Rhoads, Edward, Haverford College, Haverford, Pa. (47). B

RHODES, JAMES FORD, Author and Historian, 392 Beacon St., Boston, Mass. (50). I

Rice, Edward L., A. B., Ohio Wesleyan University, Delaware, Ohio. (43).

Rice, Edwin Wilbur, Jr., General Electric Co., Schenectady, N. Y. (50). D

Rice, John Ainsworth, Mining Engineer, Bland, New Mexico. (50). D E

Rice, Martin Everett, Asst. Professor of Physics and Electrical Engineering, University of Kansas, Lawrence, Kans. (50). B D

*Rice, Prof. W. North, Wesleyan University, Middletown, Conn. (18). 1874. E F

Rich, Jacob Monroe, 50 W. 38th St., New York, N. Y. (33). A B

Rich, Michael P., M. D., 50 W. 38th St., New York, N. Y. (40).

Richard, Montrose R., M. D., 77 E. 116th St., New York ,N. Y. (51). K

Richards, Alfred N., 45 West 60th St., New York, N. Y. (50).

*Richards, Charles B., 237 Edwards St., New Haven, Conn. (33). 1885. D

*RICHARDS, EDGAR, 341 W. 88th St., New York, N. Y. (31). 1886. C

*Richards, Prof. Robert H., Mass. Institute of Technology, Boston, Mass. (22). 1875. D

*Richards, Mrs. Robert H., Mass. Institute of Technology, Boston, Mass. (23). 1878. C

*Richards, Prof. Theodore William, Harvard University, Cambridge, Mass. (47). 1899.

Richardson, Alonzo Blair, M. D., Supt. of Government Hospital for Insane, Washington, D. C. (50). K

Richardson, Major Charles A., Canandaigua, N. Y. (50). I

Richardson, Prof. Charles Henry, Ph. D., Dartmouth College, Hanover, N. H. (47). E

Richardson, Dr. Charles Williamson, 1102 L St. N.W., Washington, D. C. (49).

*Richardson, Clifford, Barber Asphalt Paving Co., Long Island City, N. Y. (30). 1884. C

Richardson, Miss Harriet, Smithsonian Institution, Washington, D. C. (49). F

Richardson, Mark Wyman, M. D., 90 Equitable Building, Boston, Mass. (51). K

Richmond, William Henry, 3425 North Main Ave., Scranton, Pa. (50). E

Rickard, T. A., Mining Engineer and Geologist, University Club, Denver, Colo., (50). **D E**

Ricker, Maurice, Principal of High School, Burlington, Iowa. (50). **F**

Ricker, N. Clifford, Dean of the College of Engineering, University of Illinois, Urbana, Ill. (50). **D**

Ricketts, Louis D., Consulting Mining Engineer, 99 John St. New York, N. Y. (50). **D E**

*Ricketts, Prof. Palmer C., 17 1st St., Troy, N. Y. (33). 1887. **A D**

*Ricketts, Prof. Pierre de Peyster, 104 John St., New York, N. Y. (26). 1880. **C D E**

Ricketts, Col. R. Bruce, Wilkesbarre, Pa. (33). E

Riddell, John, Mechanical Superintendent, General Electric Co., 1132 State St., Schenectady, N. Y. (51). **D**

Riddle, Lumina C., 160 West Fifth Ave., Columbus, Ohio. (48). **G**

Ries, Elias E., E. E., 116 Nassau St., New York, N. Y. (33). **B D I**

*Ries, Heinrich, Ph. B., Ithaca, N. Y. (41). 1898. **E**

Riesman, David, M. D., 326 S. 16th St., Philadelphia, Pa. (51). **K**

*Riggs, Robert Baird, Ph. B., Professor of Chemistry, Trinity College, Hartford, Conn. (50). 1901. **C**

Riggs, Walter Merritt, Professor of Electrical Engineering, Clemson, College, S. C. (50). **B D**

Riker, Samuel, 27 E. 69th St., New York, N. Y. (50).

Rissmann, Otto, General Manager Cherokee-Lanyon Spelter Co., Iola, Kan. (50). **D E**

Ritchie, Craig D., Conveyancer, 414 N. 34th St., Philadelphia, Pa. (51).

*Ritter, William Emerson, Associate Professor of Zoology, University of California, Berkeley, Cal. (50). 1901. **F**

Robb, J. Hampden, 23 Park Ave., New York, N. Y. (50).

Robbins, Fred. W., Superintendent of Schools, Bethlehem, Pa. (50). **I**

Roberts, Miss Jennie B., 231 William St., Port Chester, N. Y. (43).

Roberts, John M., Principal, High School, and Instructor in Science, Marshall, Mo. (50). **F G**

Roberts, Milnor, Professor of Mining and Metallurgy, University of Washington, Seattle, Wash. (50). **D E**

Roberts, Thomas Paschall, Civil Engineer, 361 North Craig St., Pittsburg, Pa. (51). **D**

Roberts, Rev. William C., D. D., LL.D., President of Central University, Danville, Ky. (50).

Robeson, A. M., Douglas Island, Alaska. (49).

*Robinson, Benjamin Lincoln, Curator Harvard Herbarium, Cambridge, Mass. (41). 1893. **G**

Robinson, Charles Dwight, Newburgh, N. Y. (50). **I**

*Robinson, Prof. Franklin C., Bowdoin College, Brunswick, Me. (29). 1889. **C D**

*Robinson, Prof. Otis Hall, 273 Alexander St., Rochester, N. Y. (23). 1901. **A B**

Robinson, Sanford, C. E., E. M., Steeple Rock, New Mexico. (50). **D**

Robinson, Samuel Adams, M. D., 135 North 22d St., Portland, Oregon. (51). **H I K**

*Robinson, Prof. S. W., 1353 Highland St., Columbus, Ohio. (30). 1883. **A B D**

Rochester, DeLancey, M. D., 469 Franklin St., Buffalo, N. Y. (35). **F**

Rockey, A. E., M. D., 778 Flanders St., Portland, Oregon. (51). **K**

*Rockwell, Gen. Alfred P., Manchester, Mass. (10). 1882. **E**

Rockwood, Charles G., 70 South 11th St., Newark, N. J. (36).

*Rockwood, Prof. Charles G., Jr., 34 Bayard Lane, Princeton, N. J. (20). 1874. **A B D E**

Rockwood, Elbert W., Professor of Chemistry and Toxicology, College of Medicine, State Universty of Iowa, Iowa City, Iowa. (50). **C K**

Rockwood, George I., 62 Summer St., Worcester, Mass. (47). **D**

Rodman, Charlie S., M. D., Waterbury, Conn. (51). **K**

Roe, Edward Drake, Jr., Associate Professor of Mathematics, Syracuse University, Syracuse, N. Y. (50). **A**

Roessler, Franz, 73 Pine St., New York, N. Y. (39).

Rogers, Arthur Curtis, M. D., Supt. Minn. School for Feeble-Minded, Faribault, Minn. (51). **K**

Rogers, Edward L., 71 Broadway, New York, N. Y. (50).

Rogers, John T., M. D., 5th and St. Peter Sts., "Lowry Arcade," St. Paul, Minn. (51). **K**

*Rolfs, Peter H., Tropical Laboratory U. S. Department Agriculture, Miami, Fla. (41). 1899. **G**

Rollins, William Herbert, M. D., 250 Marlborough St., Boston, Mass. (50). **B K**

*Rominger, Dr. Carl, Ann Arbor, Mich. (21). 1879. **E**

*Rood, Prof. Ogden N., Columbia University, New York, N. Y. (14). 1875. **B**

ROOSEVELT, MRS. MARION T., 57 Fifth Ave., New York, N. Y. (31). **H I**

*Root, Hon. Elihu, Secretary of War, Washington, D. C. (50). 1901. **I**

Rorer, James Birch, 1715 Chestnut St., Philadelphia, Pa. (51). **G**

Rorer, Jonathan T., Ph. D., Central High School, Philadelphia, Pa. (47).

*Rosa, Edward Bennett, Wesleyan University, Middletown, Conn. (39). 1892. **A B**

Rosenau, Milton J., M. D., Director Hygienic Laboratory, Marine Hospital Service, Washington, D. C. (51). **K**

Rosenthal, Edwin, M. D., 517 Pine St., Philadelphia, Pa. (51). **K**
Ross, Bennett Battle, Professor of Chemistry, Alabama Polytechnic Institute, Auburn, Ala. (45). **C**
Ross, Denman Waldo, Ph. D., Cambridge, Mass. (29).
*Rotch, A. Lawrence, Director of Blue Hill Meteorological Observatory, Hyde Park, Mass. (39). 1896. **B**
Roth, Filibert, U. S. Dept. of Agriculture, Washington, D. C. (39). **F**
Rothe, Wm. G., 226 Stuyvesant Ave., Brooklyn, N. Y. (43).
Rothschild, Jacob, Hotel Majestic, New York, N. Y. (50).
Rotzell, W. E., M. D., Narberth, Pa. (45). **F H**
*Rowlee, W. W., Cornell Univ., Ithaca, N. Y. (41). 1894. **G**
Roy, Arthur J., C. E., First Assistant, Dudley Observatory, Albany, N. Y. (50). **A**
Rucker, Miss Augusta, University of Texas, Austin, Texas. (51).
Ruddick, William H., M. D., So. Boston, Mass. (51). **F K**
Ruete, Otto M., Ph. D., Analytical and Consulting Chemist, Dubuque, Iowa. (51). **C E**
Ruland, Frederick D., M. D., Westport, Conn. (51). **B C K**
Ruland, M. A., 53 Linden Ave., Flatbush, Brooklyn, N. Y. (43).
*Runkle, Prof. John D., 15 Everett St., Cambridge, Mass. (2). 1875. **A D**
Running, Theodore R., Ph. D., Professor of Mathematics and Natural Sciences, St. Olaf College, Northfield, Minn. (50). **A**
Runyon, William Henry, Teacher of Science, Lyons Township High School, La Grange, Ill. (50). **B F**
Rupp, August, A. B., College of City of New York, New York, N. Y. (35).
Ruppersberg, Miss Emma A., 842 South High St., Columbus, Ohio. (48). **B**
*Rusby, Henry H., M. D., 115 West 68th St., New York, N. Y. (36). 1890. **G**
Russak, Frank, 19 East 65th St., New York, N. Y. (50). **I**
Russell, A. H., Lieut. Col. U. S. A., Chief Ordnance Officer, Div. of Philippines, Manila, P. I. (38). **D**
*Russell, Frank, Ph. D., Bureau of American Ethnology, Washington, D. C. (45). 1897. **H**
Russell, Herbert Edwin, Professor of Mathematics, University of Denver, University Park, Colo. (50). **A**
*Russell, Prof. H. L., University of Wisconsin, Madison, Wis. (41). 1894. **G**
*Russell, Israel C., University of Michigan, Ann Arbor, Mich. (25). 1882. **E**
*Russell, James E., Dean of Teachers' College, West 120th St. New York, N. Y. (50). 1901. **H I**
Russell, Hon. John Edwards, Leicester, Mass. (47). **I**

*Rutter, Frank Roy, Ph. D., U. S. Dept. Agriculture, Washington, D. C. (47). 1900. I

*Ryan, Harris J., Cornell University, Ithaca, N. Y. (38). 1890. B

*Rydberg, Dr. Per Axel, N. Y. Botanical Garden, Bronx Park, New York, N. Y. (49). 1901. G

Rynearson, Edward, Central High School, Pittsburg, Pa. (51). F G

Sachs, B., M. D., 21 E. 65th St., New York, N. Y. (49).

Sackett, Miss Eliza D., Cranford, N. J. (35). F H

Sackett, Robert L., C. E., Professor of Applied Mathematics and Astronomy, Earlham College, Richmond, Ind. (50). A

Sage, John H., Portland, Conn. (23). F

Sager, Fred. Anson, Asst. Professor of Physics, University of Illinois, Urbana, Ill. (50). B

*St. John, Prof. Charles E., 125 Elm St., Oberlin, Ohio. (46). 1900. B

St. John, Howell W., P. O. Box 913, Hartford, Conn. (49). I

Salathé Frederick, Ph. D., General Superintendent, Penna. Oil & Gas Co., Casper, Wyoming. (51). C

*Salisbury, Prof. R. D., Chicago University, Chicago, Ill. (37). 1890. B E

*Salmon, Daniel E., U. S. Dept. Agriculture, Washington, D. C. (31). 1885. F

Sander, Dr. Enno, St. Louis, Mo. (27). C

Sanderson, E. Dwight, Entomologist, Del. Coll. Agric. Exper. Station, Newark, Del. (50). F

Sando, Will J., Manager International Steam Pump Co., 120 Liberty St., New York, N. Y. (51). E

Sanford, E. C., Clark University, Worcester, Mass. (49). H I

*Sanford, Fernando, Professor of Physics, Stanford University, Cal. (50). 1901. B

Sardeson, Frederick William, Ph. D., Instructor in Geology, University of Minnesota, Minneapolis, Minn. (50). E

Sargent, Asa Nathaniel, M. D., 116 Federal St., Salem, Mass. (51). K

*Sargent, Dudley Allen, M. D., Director of the Hemenway Gymnasium, Harvard University, Cambridge, Mass. (47). 1899. H

Satterfield, David Junkin, D. D., President of Scotia Seminary, Concord, N. C. (50). I

Satterlee, F. LeRoy, M. D., 8 W. 18th St., New York, N. Y. (50). K

*Saunders, A. P., Ph. D., Hamilton College, Clinton, N. Y. (48). 1900. C

*Saunders, Charles E., Ph. D., Experimental Farm, Ottawa, Canada. (41). 1895. C

Saunders, Edward W., M. D., 1635 S. Grand Ave., St. Louis, Mo. (51). K

Saunders, F. A., Ph. D., Instructor in Physics, Syracuse University, Syracuse, N. Y. (48). **B**

*Saunders, William, LL.D., F. R. S. C., F. L. S., Canadian Experimental Farms, Ottawa, Canada. (17). 1874. **F**

Savage, Dr. W. L., Director of the Gymnasium of Columbia University, Columbia Univ., New York, N. Y. (51).

*Saville, Marshall H., Amer. Mus. Nat. History, Central Park, New York, N. Y. (39). 1892. **H**

Sawyer, Edward, Civil and Mechanical Engineer, Newton, Mass. (51). **D**

Sayre, Miss Clara B., South Bethlehem, Pa. (50). **E H**

*Sayre, Robert H., South Bethlehem, Pa. (28). 1899. **D**

Scaife, Walter B., care A. W. Elford, Catania, Sicily. (49). **I**

Scaife, William Lucien, 28th St., Pittsburg, Pa. (51). **B D**

*SCHAEBERLE, J. M., 502 Second St., Ann Arbor, Mich. (34). 1886. **A**

Schaeffer, Henri N. F., P. O. Box 676, Manchester, N. H. (46). **C**

SCHAFFER, CHAS., M. D., 1309 Arch St., Philadelphia, Pa. (29). **E F**

SCHAFFER, MRS. MARY TOWNSEND SHARPLESS, 1309 Arch St., Philadelphia, Pa. (38). **E F**

*Schaffner, John H., Ohio State Univ., Columbus, Ohio. (48). 1899. **G**

Scharar, Christian H., 2073 N. Main Ave., Scranton, Pa. (33). **A D E H**

Scheffler, Frederick A., Mechanical and Electrical Engineer, Box 233, Glen Ridge, N. J. (50). **D**

Schenck, Charles C., Ph. D., Instructor in Physics, Lehigh University, South Bethlehem, Pa. (51). **B**

SCHERMERHORN, F. AUG., 61 University Place, New York, N. Y. (36).

SCHERMERHORN, WM. C., 49 W. 23d St., New York, N. Y. (36).

Schernikow, Ernest, P. O. Box 1191, New York, N. Y. (49).

Schiaffino, Mariano L., Chief Electrical Engineer, "Campania de Luz de Guadalajara," Belen 2, Apartado 260, Guadalajara, Mexico. (50). **D**

Schiedt, Richard Conrad, Professor of Biology, Franklin and Marshall College, Lancaster, Pa. (50). **F**

Schieffelin, Eugene, 865 Madison Ave., New York, N. Y. (50).

Schieren, Hon. Charles A., 405 Clinton Ave., Brooklyn, N. Y. (43). **C I**

Schiertz, Ferdinand Alfred, Rosario Mines, Ltd., Guadalupe y Calvo, Estado de Chihuahua, Mexico. (50). **D E**

Schiff, Jacob H., P. O. Box 1193, New York, N. Y. (49).

Schirmer, Gustave, 117 E. 35th St., New York, N. Y. (49).

Schlesinger, Frank, Observer, in charge of International Latitude Observatory, Ukiah, Cal. (51). **A**

Schlichting, Emil, Analytical Chemist, 646 Broadway, Milwaukee, Wis. (50). **C**

*Schlotterbeck, Julius O., Ann Arbor, Mich. (46). 1899. **G**

Schmeckebier, Lawrence Frederick, Ph. D., U. S. Geol. Survey, Washington, D. C. (50). **E I**

Schmid, Dr. H. Ernest, White Plains, N. Y. (25).

Schmitt, A. Emil, M. D., 310 East 57th St., New York, N. Y. (50). **K**

Schmitt, Ewald, 2235 13th St. N.W., Washington, D. C. (51).

Schobinger, John J, Morgan Park, Ill. (34). **B**

*Schöney, L., M. D., 23 W. 135th St., New York, N. Y. (29). 1900. **F**

Schuette, J. H., Green Bay, Wis. (34). **B E F**

Schultz, Carl H., 430–444 First Ave., bet. 25th and 26th Sts., New Yrk, N. Y. (29).

*Schurman, Jacob Gould, LL.D., President Cornell University, Ithaca, N. Y. (49). 1901.

Schuyler, Philip, Irvington-on-Hudson, N. Y. (49).

Schwalbe, Carl, M. D., 1002 So. Olive St., Los Angeles, Cal. (51). **K**

*Schwarz, E. A., U. S. Department of Agriculture, Washington, D. C. (29). 1895. **F**

Schwatt, Isaac Joachim, Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. (51). **A**

*Schweitzer, Prof. Paul, State Univ. of Missouri, Columbia, Mo. (24). 1877. **B C**

Scott, Arthur Curtis, Kingston, R. I. (47).

Scott, Prof. Arthur William, St. David's College, Lampeter, S. Wales, England. (46). **A B**

*Scott, Charles F., Westinghouse Electric and Mfg. Co., Pittsburg, Pa. (48). 1900. **B**

Scott, Martin P., M. D., Maryland Agric. College, College Park, Md. (31).

Scott, William, Counsel for Penna. R.R. Co., 450 4th Ave., Pittsburg, Pa. (50). **I**

Scott, W. M., State Entomologist, Atlanta, Ga. (50). **F**

Scovell, M. A., Director and Chemist, Agricultural Experiment Station, Lexington, Ky. (35). **C**

Scripture, Arthur M., Principal of High School, New Hartford, N. Y. (51). **D**

*Scripture, E. W., Yale University, New Haven, Conn. (46). 1901. **H**

*Scudder, Samuel H., Cambridge, Mass. (13). 1874. **F**

*Scull, Miss Sarah A., Smethport, Pa. (40). 1895. **H**

Seal, Alfred Newlin, Ph. D., Professor of Chemistry, Girard College, Philadelphia, Pa. (50). **B C**

*Seaman, W. H., Chemist, 1424 11th St. N.W., Washington, D. C. (23). 1874. **C F**

Searing, Anna H., M. D., Escondido, Cal. (41). **G**
*Searle, Prof. George M., St. Thomas College, Catholic University, Washington, D. C. (39). 1891. **A**
Sears, Edward H., Collinsville, Conn. (50). **D I**
Sears, Frederick Edmund, St. Paul's School, Concord, N. H. (47). **C E**
Sears, Henry Francis, Topsfield, Mass. (50).
Seashore, Carl E., Univ. of Iowa, Iowa City, Iowa. (49). **H**
Seawell, Benjamin Lee, Teacher of Biology, State Normal School, Warrensburg, Mo. (50). **F**
Sebert, William F., 48 Strong Place, Brooklyn, N. Y. (41). **A E**
*Sedgwick, William Thompson, Massachusetts Institute of Technology, Boston, Mass. (47). 1898. **F G**
*See, Horace, 1 Broadway, New York, N. Y. (34). 1886. **D**
See, James W., M. E., Opera House, Hamilton, Ohio. (51). **D**
*See, Prof. T. J. J., U. S. Naval Observatory, Washington, D. C. (48). 1901. **A**
*Selby, Augustine Dawson, Agric. Exper. Station, Wooster, Ohio. (44). 1900. **G**
Seligman, Isaac N., Mills Building, New York, N. Y. (49).
Sellers, James Freeman, Prof. of Chemistry, Mercer University, Macon, Ga. (50). **C**
Sellers, William, 1600 Hamilton St., Philadelphia, Pa. (51).
Sercombe, Parker H., Banker, 1a Calle San Francisco, No. 8, City of Mexico, Mexico. (51). **H**
Serrell, Gen. Edward Wellman, C. E., Forest Ave., West New Brighton, N. Y. (50). **B C D**
Sessinghaus, Gustavus, E. M., 1360 Columbine St., Denver, Colo. (50). **E**
Sever, George F., Columbia University, New York, N. Y. (49). **B**
Seymour, A. T., 512 S. 1st Ave., Mt. Vernon, N. Y. (47).
*Seymour, Paul Henry, 215 East 61st St., Chicago, Ill. (44). 1896. **C**
Shafer, John A., Custodian, Carnegie Museum, Pittsburg, Pa. (51). **G**
Shaffner, Samuel C., Supt. Electric Lighting Co., Mobile, Ala. (50). **C D**
Shantz, Homer LeRoy, Colorado Springs, Colo. (50). **F**
Sharp, Charles Cutler, C. E., E. M., President Raven Coal and Coke Co., Boomer, W. Va. (50). **D E**
*Sharp, Dr. Clayton H., Box 114, Newark, N. J. (45). 1897.
Sharpe, Benjamin F., Greenwich, N. Y. (50). **B**
Sharpe, Richard W., 732 Emerson St., Evanston, Ill. (51). **F**
Sharples, Philip Price, A. B., 22 Concord Ave., Cambridge, Mass. (47). **C**
*Sharples, Stephen P., 13 Broad St., Boston, Mass. (29). 1884. **C**

*SHATTUCK, FREDERICK C., M. D., Professor Clinical Medicine, Harvard Medical College, Boston, Mass. (50). 1901. F K

*Shattuck, George Burbank, Johns Hopkins University, Baltimore, Md. (47). 1899. E

Shattuck, Samuel Walker, Professor of Mathematics, University of Illinois, Champaign, Ill. (50). A

Shaw, Edwin C., M. E., 104 Park St., Akron, Ohio. (50). D

Shaw, Henry Lyman, M. D., 19 Commonwealth Ave., Boston, Mass. (51). K

Shaw, Walter Robert, Ph. D., Prof. of Botany and Entomology, Agric. & Mech. College, Stillwater, Okla. Ter. (47). F G

Shaw, Wilson A., Cashier, Merchants and Manuf. National Bank, Norwood Ave., cor. Forbes Ave., Pittsburg, Pa. (50). I

SHEAFER, A. W., Pottsville, Pa. (28).

*Shear, Cornelius L., U. S. Dept. Agriculture, Washington, D. C. (49). 1901. G

Shedd, John C., Prof. of Physics, Colorado Springs, Colo. (50). A B

Shedd, Solon, Professor of Geology and Mining, Agricultural College, Pullman, Wash. (50). E

Sheffield, George St. John, Twin Elms Farm, Attleborough, Mass. (50).

Sheldon, John Lewis, University of Nebraska, Lincoln, Nebraska. (50). G

Sheldon, Mrs. J. M. Arms, 18 W. Cedar St., Boston, Mass. (44). F

*Sheldon, Samuel, A. M., Ph. D., Polytechnic Institute, Brooklyn, N. Y. (42). 1894. B

*Shelton, Edward M., 2728 Boylston Ave., Seattle, Wash. (32). 1892. F

SHEPHERD, MISS ELIZABETH, 253 W. 128th St., New York, N. Y. (39).

Shepherd, Frank I., University P. O., Los Angeles, Cal. (48). C

Sheppard, Morris, Lawyer and Actuary, Texarkana, Texas. (51).

Sherman, Franklin, Jr., State Entomologist, Raleigh, N. C. (50). F

Sherman, Lewis, M. D., 448 Jackson St., Milwaukee, Wis. (50). F K

Sherwood-Dunn, B., M. D., 26 Broadway, New York, N. Y. (51). K

Shiland, Andrew, Jr., 262 W. 78th St., New York, N. Y. (50).

*Shimer, Porter W., E. M., Ph. D., Easton, Pa. (38). 1889. C

Shinn, Charles Howard, Inspector of Experiment Stations, University of California, Niles, Cal. (50). F G

Shrader, John Clinton, M. D., LL.D., President Iowa State Board of Health, Iowa City, Iowa. (50). F K

Shropshire, Walter, M. D., Yoakum, Texas. (50). F K

Shultz, Charles S., Hoboken, N. J. (31). F

Shurley, E. L., M. D., 32 Adams Ave., West Detroit, Mich. (51). K

Shute, D. K., M. D., 1101 13th St. N.W., Washington, D. C. (50). F I K

Sickels, I., M. D., 17 Lexington Ave., New York, N. Y. (50). **F K**

Siemon, Rudolf, 22 East Jefferson St., Fort Wayne, Ind. (40). **A F**

*Sigsbee, Charles D., Captain U. S. N., Navy Department, Washington, D. C. (28). 1882. **D E**

Silloway, Perley Milton, Principal of High School, Lewiston, Montana. (51). **F**

Silvester, Richard W., President Maryland Agricultural College, College Park, Md. (50). **G**

*Simon, Dr. Wm., 1348 Block St., Baltimore, Md. (29). 1895. **C**

*Simonds, Prof. Frederic W., University of Texas, Austin, Texas. (25). 1888. **E F**

Simpson, Friench, Jr., Columbus, Texas. (50). **F H K**

Simpson, John Crayke, M. D., Govt. Hospital for the Insane, Washington, D. C. (51). **K**

Singer, George Park, 545 W. Church St., Lock Haven, Pa. (50). **B**

Sirrine, F. Atwood, 110 New York Ave., Jamaica, N. Y. (44). **F**

Skeel, Frank D., M. D., 58 East 25th St., New York, N. Y. (50). **F K**

Skiff, F. J. V., Director, Field Columbian Museum, Chicago, Ill. (43).

*Skinner, Aaron Nichols, U. S. Naval Observatory, Washington, D. C. (40). 1893. **A**

Skinner, Clarence A., Ph. D., University of Nebraska, Lincoln, Neb. (48). **B**

Skinner, Clarence Edward, M. D., Physician in charge, The Newhope Hot Air Sanitarium, 67 Grove St., New Haven, Conn. (51). **K**

Skinner, Henry, M. D., 716 N. 20th St., Philadelphia, Pa. (47). **F K**

Skinner, James Dudley, 823 E. 14th Ave., Denver, Colo. (50). **B D**

Slade, Elisha, Somerset, Mass. (29). **F**

Slagle, Robert Lincoln, Ph. D., President, State School of Mines, Rapid City, S. D. (50). **C E**

Slichter, Charles S., Professor of Applied Mathematics, University of Wisconsin, Madison, Wis. (51). **A**

*Slingerland, Mark Vernon, Assistant Professor of Economic Entomology, Cornell University, Ithaca, N. Y. (50). 1901. **F**

Slocum, Chas. E., M. D., Defiance, Ohio. (34). **F G H**

Slocum, Frederick, Ph. D., Ladd Observatory, Providence, R. I. (47).

Slonaker, James Rollin, University of Chicago, Chicago, Ill. (49). **F**

*Slosson, Edwin E., Professor of Chemistry, University of Wyoming, Laramie, Wyoming. (50). 1901. **C**

Small, John Kunkel, N. Y. Botanical Garden, Bronx Park, New York, N. Y. (44). **G**

Smallwood, Martin, 32 Gorham St., Cambridge, Mass. (50). E F
Smillie, Thomas W., U. S. National Museum, Washington, D. C. (40). F
*Smith, Alexander, Ph. D., University of Chicago, Chicago, Ill. (40). 1892. C
Smith, Allen J., M. D., School of Medicine, University of Texas, Galveston, Tex. (47). H
Smith, Mrs. Annie Morrill, 78 Orange St., Brooklyn, N. Y. (49). G
Smith, Arthur, 152 Broadway, New York, N. Y. (50). G
Smith, Arthur George, Assistant Professor of Mathematics, State University, Iowa City, Iowa. (50). A
*Smith, Prof. A. W., Case School of Applied Science, Cleveland, Ohio. (47). 1900. C
Smith, Arthur Whitmore, Prof. of Electricity, University of Mississippi, University, Miss. (44). B
*Smith, Charles J., 35 Adelbert St., Cleveland, Ohio. (32). 1885. A B
*Smith, Prof. Edgar F., University of Pennsylvania, Philadelphia, Pa. (33). 1891. C
*Smith, Erastus G., Ph. D., Director Beloit Sanitary Laboratory, Beloit, Wis. (34). 1887. C
*Smith, Ernest Ellsworth, 26 East 29th St., New York, N. Y. (43). 1898. F K
*Smith, Erwin F., U. S. Dept. Agriculture, Washington, D. C. (34). 1890. G
Smith, Eugene, C. E., 317 Washington St., Hoboken, N. J. (50). D
*Smith, Prof. Eugene Allen, University, Ala. (20). 1877. C E
Smith, Felix Ezell, Superintendent of Schools, Victoria, Texas. (51). F G
*Smith, Frank, University of Illinois, Urbana, Ill. (49). 1900. F
*Smith, Harlan I., Amer. Mus. Nat. History, Central Park, New York, N. Y. (41). 1896. H
*Smith, Prof. Harold B., Polytechnic Institute, Worcester, Mass. (43). 1898. D
Smith, Harvey F., Attorney at Law, Clarksburg, W. Va. (50). I
Smith, Herbert S. S., Professor of Applied Mechanics, Princeton University, Princeton, N. J. (29). D
Smith, Miss J. Angelina, Hopedale, Mass. (45). E
Smith, J. C., 131 Carondelet St., New Orleans, La. (48).
Smith, James Hervey, 217 North Central Ave., Chicago, Ill. (40).
*Smith, James Perrin, Ph. D., Asst. Prof. of Paleontology, Stanford University, Cal. (37). 1894. C E
*Smith Jared G., Hawaiian Experiment Station, Honolulu, T. H. (47). 1901. G
SMITH, MISS JENNIE M., 803 Arch St., Allegheny, Pa. (50). A F
*Smith, John B., Ph. D., Rutgers College, New Brunswick, N. J. (32). 1884. F

Smith, Joseph R., M. D., LL.D., Colonel and Assistant Surgeon General, U. S. A., 2300 De Lancey St., Philadelphia, Pa. (43).

SMITH, MISS MATILDA H., 803 Arch St., Allegheny, Pa. (50). **A**

Smith, Matthew Mann, M. D., Austin, Texas. (50). **F K**

Smith, Philip Sidney, 20 Trowbridge St., Cambridge, Mass. (47). **E**

*SMITH, Q. CINCINNATUS, M. D., 617 Colorado St., Austin, Texas. (26). 1881. **K**

Smith, Thomas A., Professor of Mathematics and Physics, Beloit College, Beloit, Wis. (50). **A B**

Smith, T. Guilford, Civil Engineer, Regent University, State of New York, Buffalo, N. Y. (50). **D**

*Smith, William Benjamin, Professor of Mathematics, Tulane University, New Orleans, La. (50). 1901. **A**

Smith, Wm. Lincoln, Consulting Electrical and Illuminating Engineer, Concord, Mass. (47). **D**

Smith, William Sidney Tangier, Ph. D., U. S. Geological Survey, Washington, D. C. (50). **E**

Smith, William T., M. D., Prof. of Physiology and Dean of Dartmouth Medical School, Hanover, N. H. (51). **K**

*Smock, Prof. John Conover, State Geologist, Trenton, N. J. (23). 1879. **E**

Smoot, Edgar Kenneth, Engineer and Contractor, 1511 Rhode Island Ave. N.W., Washington, D. C. (51). **D**

Smyth, Bernard Bryan, Librarian and Secretary of the Academy of Science, Topeka, Kansas. (51). **G**

*Smyth, C. H., Jr., Clinton, N. Y. (38). 1894. **E**

Sneath, E. Hershey, Professor of Philosophy, Yale University, New Haven, Conn. (51). **H**

Snedaker, James Angus, Mining Engineer, 721–722 Equitable Bldg., Denver, Colo. (50). **D**

Snelling, Charles Mercer, Junior Professor of Mathematics, University of Georgia, Athens, Ga. (50). **A**

Sneve, Haldor, M. D., Lowry Arcade, St. Paul, Minn. (51). **K**

Snook, H. Clyde, Professor of Physics and Chemistry, Allegheny College, Meadville, Pa. (50). **B C**

*Snow, Benjamin W., 518 Wisconsin Ave., Madison, Wis. (35). 1889. **B**

*Snow, F. H., Professor of Natural History, University of Kansas, Lawrence, Kan. (29). 1881. **E F**

*Snyder, Prof. Harry, 2090 Dooley Ave., Saint Anthony Park, Minn. (44). 1897. **C**

Snyder, Miss Lillian, Lafayette, Ind. (47). **G**

*Snyder, Prof. Monroe B., Philadelphia Astronomical Observatory, Philadelphia, Pa. (24). 1882. **A B**

Snyder, Nathaniel Marion, Electrical Engineer, Gering, Neb. (50). **B D**

Snyder, William E., M. E., 510 E. North Ave., Allegheny, Pa. (51). D

Snyder, Zachariah Xenophon, President State Normal School, Greeley, Colo. (50). F

Solotaroff, H., M. D., 251 East Broadway, New York, N. Y. (47). H

Soper, George A., Ph. D., 29 Broadway, New York, N. Y. (46). C

*Soule, R. H., 917 Seventh Ave., New York, N. Y. (33). 1886. D

*Soule, William, Ph. D., Mount Union Coll., Alliance, Ohio. (33). 1899. B C E

Southall, James P. C., Professor of Physics, Alabama Polytechnic Institute, Auburn, Ala. (51). B

Souvielle, Mathieu, M. D., Box 355, Jacksonville, Fla. (36). B E F

Souvielle, Mrs. Mathieu, Box 355, Jacksonville, Fla. (24). A B F

Sowers, David Wood, Supt. Buffalo Branch N. Y. Elec. Veh. Trans. Co., 179 N. Pearl St., Buffalo, N. Y. (51). D

*Spalding, Frederick P., Professor of Civil Engineering, Univ. of Missouri, Columbia, Mo. (46). 1899. D

Spalding, Volney M., Ph. D., Professor of Botany, University of Michigan, Ann Arbor, Mich. (51). G

Spangler, Harry Allen, M. D., Carlisle, Pa. (51). K

Spaulding, Edward G., Ph. D., College of the City of New York, New York, N. Y. (50). I

Spencer, John Campbell, M. D., Medical Department, University of California, San Francisco, Cal. (50). F K

*Spencer, Prof. J. William, 152 Bloor St., Toronto, Canada. (28). 1882. E

*Spenzer, John G., M. D., 116 Rose Bldg., Cleveland, Ohio. (37). 1895. C

Sperry, Elmer A., Electrical Engineer, 366–388 Massachusetts Ave., Buffalo, N. Y. (51). D

*Speyers, Clarence Livingston, Professor of Physical Chemistry, Rutgers College, New Brunswick, N. J. (50). 1901. C

Spicer, Walter E., M. D., 312 West 51st St., New York, N. Y. (51). K

Spiegelhalter, Dr. Joseph, 2166 Lafayette Ave., St. Louis, Mo. (47). E

*Spinney, L. B., Iowa State College, Ames, Iowa. (42). 1897. B

Spofford, Paul N., P. O. Box 1667, New York, N. Y. (36).

Spohn, Arthur Edward, M. D., Corpus Christi, Texas. (50). F K

Sprague, C. C., 1900 Locust St., St. Louis, Mo. (50).

Sprague, C. H., Malden, Mass. (29).

*Springer, Dr. Alfred, 312 E. 2d St., Cincinnati, Ohio. (24). 1880. C

Springsteen, Harry W., Case School of Applied Science, Cleveland, Ohio. (49). A B

Squibb, Charles F., Bernardsville, N. J. (43).

Squibb, Edward Hamilton, M. D., P. O. Box 760, Brooklyn, N. Y. (41). F K

Stackpole, Morrill D., Genl. Supt. Overland Gold Mining Co., Sunshine, Utah. (50). **E**

Stahley, George D., M. D., Gettsyburg, Pa. (47). **F G**

Stanley, William, Great Barrington, Mass. (50).

STANTON, FRANK MCMILLAN, E. M., Agent of Atlantic, Baltic and Central Mining Co's Atlantic Mine, Mich. (51). **D E**

Stanton, John R., 11 and 13 William St., New York, N. Y. (49).

Stanton, Robert Brewster, Civil and Mining Engineer, Sewickley, Pa. (51). **D**

Stanton, Timothy W., Paleontologist, U. S. Geological Survey, Washington, D. C. (50). **E**

Starks, Edwin Chapin, Curator and Instructor, Department of Zoology, Stanford University, Cal. (50). **F**

Starr, Elmer G., M. D., Clinical Prof. of Ophthalmology, University of Buffalo, Buffalo, N. Y. (50). **F K**

*Starr, Frederick, Ph. D., University of Chicago, Chicago, Ill. (36). 1892. **E H**

*Starr, M. Allen, M. D., 5 West 54th St., New York, N. Y. (50). 1901. **K**

Starrett, M. G., 349 W. 85th St., New York, N. Y. (49).

*Stearns, Robert E. C., Ph. D., 1025 East Eighteenth St., Los Angeles, Cal. (18). 1874. **F**

Stearns, Thomas B., Mining Engineer, Denver, Colo. (50). **D E**

Stearns, Theron C., M. D., Consulting Chemist, 44 Montgomery St., Jersey City, N. J. (49).

Stebbins, Miss Fannie A., 480 Union St., Springfield, Mass. (44). **F G**

Steensland, Halbert Severin, M. D., College of Medicine, Syracuse University, Syracuse, N. Y. (50). **F K**

Steer, Justin, M. D., Medical Department, Washington University, St. Louis, Mo. (50). **F K**

*Steiger, George, Chemical Laboratory, U. S. Geol. Survey, Washington, D. C. (40). 1901. **B C E**

Stein, Dr. Simon G., Muscatine, Iowa. (43).

Steinbach, Lewis W., M. D., 1309 N. Broad St., Philadelphia, Pa. (51). **K**

Steiner, Roland, Ph. D., Grovetown, Ga. (48). **H**

*Steinmetz, Charles Proteus, General Electric Co., Schenectady, N. Y. (40). 1895. **B**

Stellwagen, Thos. C., M. D., Prof. Physiology, Philadelphia Dental College, 1328 Chestnut St., Philadelphia, Pa. (51). **K**

Stephens, Henry Matthew, Professor of Biology, Dickinson College, Carlisle, Pa. (50). **F G**

*STEPHENS, W. HUDSON, Lowville, N. Y. (18). 1874. **E H**

Stern, Philip Kossuth, Consulting Mechanical and Electrical Engineer, 130 Fulton St., New York, N. Y. (50). **B D**

Sternberg, Charles Hazelius, Lawrence, Kansas (50). **E F**

*Sternberg, George M., M. D., LL.D., Surgeon-General, U. S. A., War Department, Washington, D. C. (24). 1880. **F**

Sterne, Albert E., M. D., "Norways," Indianapolis, Ind. (51). **K**

Stetson, George R., 1441 Mass. Ave. N.W., Washington, D. C. (49). **H I**

Steuart, Arthur, 951 Equitable Building, Baltimore, Md. (48). **C**

Stevens, Cyrus Lee, M. D., Secy. of the Medical Society of the State of Pa., Athens, Bradford, Co., Pa. (51). **K**

*Stevens, Frank L., Ph. D., Prof. of Biology, College of Agric. and Mech. Arts, West Raleigh, N. C. (44). 1899. **G**

Stevens, Frederick W., Department of Physics, Lake Forest University, Lake Forest, Ill. (50). **B**

Stevens, George T., M. D., 22 East 46th St., New York, N. Y. (28). **B F**

Stevens, James Franklin, M. D., 1136 O St., Lincoln, Neb. (50). **F H K**

*Stevens, James S., Orono, Me. (48). 1900. **B**

*Stevens, Prof. W. LeConte, Washington and Lee University, Lexington, Va. (29). 1882. **B**

Stevenson, Francis L., 79 Lincoln Ave., Chicago, Ill. (47). **D**

*Stevenson, Prof. John J., University Heights, New York, N. Y. (36). 1888. **E**

*Stevenson, Mrs. Matilda C., Bureau of American Ethnology, Washington, D. C. (41). 1893. **H**

Stevenson, Robert, Consulting Civil and Mining Engineer, P. O. Box 2214, San Francisco, Cal. (50). **D E**

Stewart, Douglas, Assistant to Director Carnegie Museum, Pittsburg, Pa. (50). **E**

Stewart, D. D., M. D., 1429 Walnut St., Philadelphia, Pa. (51). **K**

*Stewart, Fred. Carlton, Botanist, N. Y. Agric. Exper. Station, Geneva, N. Y. (44). 1901. **G**

Stewart, J. Clark, M. D., 1628 5th Ave., So. Minneapolis, Minn, (51). **K**

Stewart, James Henry, Director of W. Va. Agric. Exper. Station, Morgantown, W. Va. (50). **E**

*Stewart, Oscar M., Assist. Professor of Physics, University of Missouri, Columbia, Mo. (46). 1900. **B**

Stewart, Ralph Chambers, 1031 Spruce St., Philadelphia, Pa. (51).

Stickney, Gardner P., care Oliver C. Fuller & Co., Milwaukee, Wis. (44). 1901. **H**

*Stieglitz, Dr. Julius, University of Chicago, Chicago, Ill. (39). 1895. **C**

Stieringer, Luther, 129 Greenwich St., New York, N. Y. (50).

*Stiles, Charles W., Ph. D., Dept. of Agric., Washington, D. C. (40). 1892. **F**

Stiles, George M., M. D., Conshohocken, Pa. (51). **K**

Still, George A., 1428 Locust St., Des Moines, Iowa. (50). **C**

Stillhamer, Arthur G., 5809 Jackson Ave., University of Chicago, Chicago, Ill. (50). **B**

Stillman, Prof. John M., Stanford University, California. (41).

Stillwell, Lewis Buckley, Park Row Building, New York, N. Y. (50). **B D**

*Stine, Prof. W. M., Swarthmore College, Swarthmore, Pa. (37). 1900. **A C**

Stingley, Miss Lela Lorena, University of Denver, University Park, Colo. (50). **A**

Stockton, Charles G., M. D., 436 Franklin St., Buffalo, N. Y. (51). **K**

*Stockwell, John N., 1008 Case Ave., Cleveland, Ohio. (18). 1875. **A**

Stoddard, George Howland, M. E., 457 Marlborough St., Boston, Mass. (51). **D**

Stokes, Anson Phelps, 47 Cedar St., New York, N. Y. (50). **I**

*Stokes, Henry Newlin, Ph. D., U. S. Geol. Survey, Washington, D. C. (38). 1891. **C E**

Stone, Alfred H., Greenville, Miss. (51).

Stone, Prof. George E., Mass. Agricultural College, Amherst, Mass. (48). **G**

Stone, Miss Isabelle, Ph. D., Instructor in Physics, Vassar College, Poughkeepsie, N. Y. (50). **B**

Stone, Julius F., Columbus, Ohio. (48).

Stone, Lincoln R., M. D., Newton, Mass. (31).

Stone, Mason A., 161 Broadway, New York, N. Y. (49).

*Stone, Ormond, Director Leander McCormick Observatory, University of Virginia, Charlottesville, Va. (24). 1876. **A**

Storer, Norman Wilson, care Westinghouse E. & M. Co., Pittsburg, Pa. (50). **D**

*Story, Prof. Wm. E., Clark University, Worcester, Mass. (29). 1881. **A**

*Stowell, Prof. T. B., Potsdam, N. Y. (28). 1885. **F**

*Stradling, George F., Ph. D., 4114 Parkside Ave., Philadelphia, Pa. (41). 1900. **B**

Strong, Edwin A., Department of Physical Sciences, State Normal School, Ypsilanti, Mich. (46). **B**

Strong, Frederick F., M. D., 176 Huntington Ave., Boston, Mass. (47). **C F**

Strong, Frederick G., Box 959, Hartford, Conn. (50). **D**

*Strong, Wendell M., 32 Nassau St., New York, N. Y. (44). 1899. **A B**

Stubbert, J. Edward, M. D., 25 E. 45th St., New York, N. Y. (51). **K**

*Stubbs, W. C., Ph. D., Director, State Experiment Station, Aubudon Park, New Orleans, La. (40). 1901. **F**

Stump, James A., Instructor in Physics, Agricultural College, Fort Collins, Colo. (50). **B**

*Sturgis, Wm. C., 242 Prospect St., New Haven, Conn. (40). 1892. **G**

Sullivan, J. A., 308 Main St., Malden, Mass. (27). **A**

Summers, Henry E., Professor of Zoology, State College, Ames, Iowa. (50). **F**

Sumner, Francis B., Ph. D., Instructor in Natural History, College of the City of New York. (51). **F**

Surface, Harvey Adam, Professor of Zoology, Penna. State College, State College, Pa. (50). **F**

Sutton, Jasper G., M. D., Rushsylvania, Ohio. (48). **F K**

Sutton, William John, Geologist, Esquimalt and Nanaimo Ry. Co., Victoria, B. C. (50). **E**

Sutton, W. S., Professor of Science and Art of Education, University of Texas, Austin, Texas. (50). **I**

Swartzel, Karl D., Department of Mathematics, State University, Columbus, Ohio. (48). **A**

Sweet, Henry N., 50 Beacon St., Boston, Mass. (40). **D H**

Swensson, Emil, C. E., 5511 Hays St., Pittsburg, Pa. (51). **D**

Swezey, Goodwin D., Professor of Astronomy and Meteorology, University of Nebraska, Lincoln, Neb. (50). **A**

*Swingle, Walter T., U. S. Dept. Agriculture, Washington, D. C. (40). 1892. **G**

Swope, Gerard, Manager of the Western Electric Co., 810 Spruce St., St. Louis, Mo. (51). **B D**

TAFT, ELIHU B., Burlington, Vt. (36). **H**

Taggart, Rush, 319 West 75th St., New York, N. Y. (49).

*Tainter, Charles Sumner, care Am. Security and Trust Co., 1405 G St. N.W., Washington, D. C. (29). 1881. **A B D**

Tainter, Frank Stone, Civil Engineer, Far Hills, N. J. (51). **D**

*Talbot, Henry P., Mass. Institute of Technology, Boston, Mass. (44). 1896. **C**

Talbot, Miss Mignon, Teacher of Physical Geography, East High School, 640 Franklin Ave., Columbus, Ohio. (51). **E**

Talbott, Mrs. Laura Osborne, 1445 Huntington Place, Washington, D. C. (36). **F G I**

Tallman, William Duane, Professor of Mathematics, State College, Bozeman, Mont. (50). **A**

TALMAGE, JAMES EDWARD, Ph. D., Professor of Geology, University of Utah, Salt Lake City, Utah. (50). **E**

Tandberg, John P., Instructor in Physics and Chemistry, St. Olaf College, Northfield, Minn. (50). **B C**

*TANNER, PROF. JOHN HENRY, 7 Central St., Ithaca, N.Y. (47). 1899. **A B**

*Tarr, Ralph Stockman, Cornell University, Ithaca, N. Y. (49). 1901. **E**

Tatlock, John, Jr., 32 Nassau St., New York, N. Y. (50).
Taussig, James, Grand Avenue Hotel, St. Louis, Mo. (50). **I**
*Taylor, Alonzo Englebert, Professor of Pathology, University of California. Residence 1809 Broadway, San Francisco, Cal. (50). 1901. **C K**
Taylor, Edward B., Pittsburg, Pa. (50). **D**
Taylor, Edward Randolph, Penn Yan, N. Y. (39). **C**
Taylor, Edward Wyllys, M. D., Harvard Medical School, Boston, Mass. (50). **K**
*Taylor, Frank B., 391 Fairfield Ave., Fort Wayne, Ind. (39). 1897.
Taylor, Henry L., 60 W. 55th St., New York, N. Y. (49).
Taylor, H. Longstreet, M. D., 75 Lowry Arcade, St. Paul, Minn. (51). **K**
Taylor, J. Erskine, M. D., Rockland, Pa. (51). **K**
Taylor, James Landon, M. D., Wheelersburg, Ohio. (51). **K**
*Taylor, James M., Colgate University, Hamilton, N. Y. (33). 1901. **A D**
Taylor, Lewis H., M. D., 83 S. Franklin St., Wilkes-Barre, Pa. (51). **K**
Taylor, Robert S., Box 2019 ,Fort Wayne, Ind. (39).
Tays, Eugene Aug. Hoffman, C. E., E. M., Manager Anglo-Mexican Mining Co., San José de Gracia, Sinaloa, Mexico. (50). **D E**
Teeters, Wilber John, State University, Iowa City, Iowa. (50). **C F K**
Terrell, Arthur Davis, 624 E. Madison St., Iola, Kansas. (51). **C**
*Tesla, Nikola, LL.D., 55 W. 27th St., New York, N. Y. (43). 1895. **B**
Thaw, Benjamin, President Hecla Coke Co., Morewood Place, Pittsburg, Pa. (50). **A D**
Thaw, Mrs. William, Box 1086, Pittsburg, Pa. (41). **H**
*Thaxter, Roland, Ph. D., Professor of Cryptogamic Botany, Harvard University, Cambridge, Mass. (50). 1901. **G**
Thayer, Harry Stanley, Boulder, Colo. (50). **C**
Theisen, Clement F., M. D., 172 Washington Ave., Albany, N. Y. (51). **K**
Thelberg, Elizabeth B., M. D., Resident Physician and Professor of Physiology and Hygiene, Vassar College, Poughkeepsie, N. Y. (50). **F K**
Thiemann, Hermann, Manchester, Mass. (50). **G**
*Thom, Charles, Instructor in Botany, University of Missouri, Columbia, Mo. (50). 1901. **G**
*Thomas, Benjamin F., Professor of Physics, State University, Columbus, Ohio. (29). 1882. **A B**
Thomas, George T., M. D., Rogers, Texas. (50). **F K**
Thomas, Jerome B., Captain and Assistant Surgeon, U. S. V., care Chief Surgeon, Manila, P. I. (51). **K**

*Thomas, Prof. M. B., Crawfordsville, Ind. (41). 1894. **G**
Thompson, Alton H., 721 Kansas Ave., Topeka, Kan. (33). **H**
Thompson, Miss Anna F., P. O. Box 32, Summit, N. J. (49).
Thompson, Hugh L., Consulting Mechanical Engineer, Waterbury, Conn. (51). **D**
Thompson, James E., New Carlisle, Ohio. (48).
Thompson, James Edwin, 3224 Broadway, Galveston, Texas. (50).
Thompson, J. L., M. D., 22 West Ohio St., Indianapolis, Ind. (39). **F**
*Thompson, Joseph Osgood, Amherst, Mass. (41). 1893.
Thompson, Robert M., 99 John St., New York, N. Y. (49).
Thompson, Rev. Walter, D. D., Garrison-on-Hudson, N. Y. (49).
Thompson, William, Mining, Metallurgical and Mechanical Engineer, Rossland Great Western Mines, Ltd., Rossland, B. C. (50). **D E**
Thompson, W. Gilman, M. D., 34 E. 31st St., New York, N. Y. (50). **F K**
*Thomson, Elihu, Swampscott, Mass. (37). 1888. **B**
*Thomson, Wm., M. D., 1426 Walnut St., Philadelphia, Pa. (33). 1885. **B**
Thornber, John J., Botanist, Agr. Exper. Station, Tucson, Arizona. (50). **G**
*Thornburg, Charles L., Lehigh Univ., S. Bethlehem, Pa. (44). 1897. **A**
*Thorndike, E. L., Ph. D., Adjunct Prof. of Genetic Psychology, Columbia Univ., New York, N. Y. (49). 1901. **H I K**
THORNE, MRS. PHOEBE ANNA, 558 Madison Ave., New York, N. Y. (50).
Thorne, Samuel, Jr., 55 Liberty St., New York, N. Y. (49).
*Thruston, Gates Phillips, Nashville, Tenn. (38). 1890. **H**
*Thruston, R. C. Ballard, Ballard & Ballard Co., Louisville, Ky. (36). 1896. **E**
*Thurston, Prof. R. H., Sibley College, Cornell University, Ithaca, N. Y. (23). 1875. **D**
Tibbals, George Attwater, 148 Milton St., Brookyn, N. Y. (51).
Tiffany, L. C., 27 E. 72d St., New York, N. Y. (50).
*Tight, Prof. William George, Albuquerque, N. M. (39). 1900. **E**
Tilley, Charles Edward, Teacher of Physics and Chemistry, Hope Street High School, Providence, R. I. (50). **B C**
Tilson, P. S., Associate Professor of Chemistry, A. and M. College, College Station, Tex. (50). **C**
Tilton, John Littlefield, Simpson College, Indianola, Iowa. (50). **E**
Tingle, J. Bishop, Illinois College, Jacksonville, Ill. (50). **C**
Titchener, E. B., Professor of Psychology, Cornell University, Ithaca, N. Y. (51). **K**
*Tittmann, Otto H., Supt. U. S. C. and G. Survey, Washington, D. C. (24). 1888. **A**

Titus, E., Jr., 10 E. 70th St., New York, N. Y. (50).
Titus, E. S. G., Natural Nistory Bldg., University of Illinois, Urbana, Ill. (50). **F**
Todd, Albert M., Kalamazoo, Mich. (37). **C**
*Todd, Prof. David P., Director Lawrence Observatory, Amherst, College, Amherst, Mass. (27). 1881. **A B D**
*Todd, Prof. James E., State Univ., Vermilion, S. Dak. (22). 1886. **E F**
Todd, J. H., M. D., Christmas Knoll, Wooster, Ohio. (48).
Todd, William J., M. D., Mt. Washington, Baltimore, Md. (51). **K**
Tolman, Rev. Marcus Alden, 123 S. High St., Bethlehem, Pa. (50). **I**
Tompkins, Stonewall, M. E., 1602 McKinney Ave., Houston, Tex. (51). **D**
Tonnele, Theodore, Metallurgical Engineer, 919 College Ave., Pittsburg, Pa. (50). **E**
Tooker, William Wallace, Sag Harbor, N. Y. (43). **H**
Toothe, William, Madison, N. J. (49).
Totman, David M., M. D., 303 Montgomery St., Syracuse, N. Y. (50). **K**
Tower, Olin F., Ph. D., Instructor in Chemistry, Adelbert College, Cleveland, Ohio. (50). **C**
Towle, William Mason, State College, Pa. (44). **D**
Townsend, Charles O., U. S. Dept. Agriculture, Washington, D. C. (46). **G**
Townson, Andrew J., President Board of Education, Granite Building, Rochester, N. Y. (50). **I**
Tracy, Edward A., M. D., 353 Broadway, S. Boston, Mass. (51). **K**
*Tracy, Samuel M., Biloxi, Miss. (27). 1881. **G**
*Traphagen, Frank W., Ph. D., Bozeman, Montana. (35). 1889. **C E F**
Trask, Spencer, 27 Pine St., New York, N. Y. (50). **I**
Traylor, Miss Mary Clark, 653 S. Grant Ave., Denver, Colo. (50). **A**
Treat, Erastus B., 241–243 W. 23d St., New York, N. Y. (29). **F I**
*Trelease, Wm., Ph. D., Director Missouri Botanical Gardens, St. Louis, Mo. (39). 1891. **G**
Trimble, Robert E., Asst. Meteorologist and Irrigation Engineer, Agricultural College, Fort Collins, Colo. (50). **D E**
Troth, Alonzo P., Principal of High School, Leadville, Colo. (50). **F**
*Trowbridge, Augustus, Ph. D., Dept. Physics, University of Wisconsin, Madison, Wis. (47). 1900. **B**
*Trowbridge, Charles Christopher, Tutor in Physics, Columbia University, New York, N. Y. (50). 1901. **B**
Trowbridge, Luther H., 13 Madison Ave., Detroit, Mich. (29).
Trowbridge, Mrs. M. E. D., 13 Madison Ave., Detroit, Mich. (21). **G I**

*True, Fred. W., U. S. National Museum, Washington, D. C. (28). 1882. **F**

*True, Rodney Howard, U. S. Dept. Agriculture, Washington, D. C. (46). 1899. **G**

Trueblood, Mary Esther, 9 Crawford St., Boston, Mass. (47). **A**

Truesdell, George, Room 22, Wyatt Building, Washington, D. C. (49). **I**

Tucker, Richard Hawley, C. E., Astronomer, Lick Observatory, Mt. Hamilton, Cal. (50). **A D**

Tucker, William Albert, New Rockford, N. Dak. (51). **G**

Tucker, William Conquest, Civil and Sanitary Engineer, 156 Fifth Ave., New York, N. Y. (51). **D**

*Tucker, Willis G., M. D., Albany Medical College, Albany, N. Y. (29). 1888. **C**

*Tuckerman, Alfred, Ph. D., 342 W. 57th St., New York, N. Y. (39). 1891. **C**

Tuckerman, Louis Bryant, Jr., Box 1096, Station A, Lincoln, Neb. (50). **A B**

*Tufts, Frank Leo, Ph. D., Tutor in Physics, Columbia University, New York, N. Y. (50). 1901. **B**

Tuohy, John, Tulare, California. (50). **B I**

Turck, Fenton B., M. D., 362 Dearborn Ave., Chicago, Ill. (51). **K**

Turnbull, Thomas, Jr., M. D., Asst. Professor of Practice of Medicine, Allegheny University, Allegheny, Pa. (50). **F K**

Turner, Archelaus E., President Waynesburg College, Waynesburg, Pa. (50). **E I**

Turner, J. Spencer, 70 Worth St., New York, N. Y. (43). **B**

*Tuttle, Prof. Albert H., University of Virginia, Charlottesville, Va. (17). 1874. **F**

Tweedy, Miss Alice B., Spuyten Duyvil, New York, N. Y. (49).

*Twitchell, E., Wyoming, Ohio. (39). 1891. **C**

Tyler, Prof. H. W., 491 Boylston St., Boston, Mass. (51).

Tyler, Ansel Augustus, Ph. D., Professor of Science, Bellevue College, Bellevue, Neb. (50).

Tyrrell, Joseph Burr, Mining Engineer, Dawson, Y. T., Canada. (50). **D E**

Tyson, James, M. D., 1506 Spruce St., Philadelphia, Pa. (51). **K**

*Uhler, Philip R., 254 W. Hoffman St., Baltimore, Md. (19). 1874. **E F**

Uihlein, August, 332 Galena St., Milwaukee, Wis. (51)

*Underwood, Lucien M., Columbia University, New York, N. Y. (23). 1885. **G**

Underwood, William Lyman, Lecturer on Biology, Mass. Institute of Technology, Boston, Mass. (51). **F K**

Updegraff, Milton, U. S. Naval Observatory, Washington, D. C. (40). **A**

*Upham, Warren, Secy. Minnesota Historical Society, St. Paul, Minn. (25). 1880. **E**

Upton, George B., Milton, Mass. (50).

*Upton, Winslow, Ladd Observatory, Providence, R. I. (29). 1883. **A**

Vail, Miss Anna Murray, 29 Washington Square, New York, N. Y. (50).

Vaile, Joel F., 420 Equitable Building, Denver, Colo. (50). **I**

Valentine, Edw. P., Richmond, Va. (33). **H**

Vallé, Jules F., M. D., 3303 Washington Ave., St. Louis, Mo. (51). **K**

*Van Amringe, John Howard, Professor of Mathematics, Columbia University, New York, N. Y. (50). 1901. **A**

Van Antwerp, Rev. Francis J., 26 Harper Ave., Detroit, Mich. (46).

VAN BEUREN, FREDERICK T., 21 W. 14th St., New York, N. Y. (36).

Van Brunt, Cornelius, 319 E. 57th St., New York, N. Y. (28).

Vanderbilt, Cornelius, 602 Fifth Ave., New York, N. Y. (51). **D**

Vanderlaan, J., M. D., 200 S. Terrace St., Muskegon, Mich. (51). **K**

Vanderpoel, Frank, M. D., 153 Center St., Orange, N. J. (50). **F K**

Van Dine, Delos Lewis, Honolulu Normal School, Honolulu, T. H. (51).

Van Duyn, John, M. D., 318 James St., Syracuse, N. Y. (50). **F K**

*Van Dyck, Prof. Francis Cuyler, P. O. Box 224, New Brunswick, N. J. (28). 1882. **B C F**

Van Dyck, William Van Bergen, Cronly, N. C. (50). **D**

Van Gelder, Arthur P., Landing, N. J. (50).

Van Giesen, Ira, 1 Madison Ave., New York, N. Y. (49).

Van Gundy, M. C., Herron Hill Laboratory, Center Ave. and Craig St., Pittsburg, Pa. (51). **C**

*Van Hise, Charles R., Univ. of Wisconsin, Madison, Wis. (37). 1890. **E**

Van Ingen, Dr. Gilbert, Columbia University, New York, N. Y. (49).

Van Orden, Charles H., Civil Engineer, Catskill, N. Y. (51). **D**

Van Ornum, Prof. John Lane, Professor of Civil Engineering, Washington University, St. Louis, Mo. (50). **D**

Vansize, William B., 253 Broadway, New York, N. Y. (50). **D**

*Van Slyke, Lucius L., Agr, Exper. Station, Geneva, N. Y. (41). 1901. **C**

Van Valkenburg, Hermon L., Electrical Engineer, Amber Club, Shady Ave., Pittsburg, Pa. (51). **D**

*Van Vleck, Prof. John M., Wesleyan University, Middletown, Conn. (23). 1875. **A**

Van Winkle, Edgar B., 115 E. 70th St., New York, N.Y . (49).
Varney, A. L., Major of Ordnance, U. S. A., San Antonio Arsenal, San Antonio, Texas. (44). H
VAUX, GEORGE, JR., 404 Girard Building, Philadelphia, Pa. (33). A E
Veblen, Andrew A., Professor of Physics, State University, Iowa City, Iowa. (50). B
Veeder, Curtis Hussey, Mechanical Engineer, 40 Willard St., Hartford, Conn. (50). B D
Velsor, Joseph A., 105 McDonough St., Brooklyn, N. Y. (50). C
*Venable, Prof. F. P., Chapel Hill, N. C. (39). 1891. C
Venable, Wm. Mayo, C. E., E. E., care Natl. Contracting Co., 11 Broadway, New York, N. Y. (50). D
*Verrill, Prof. A. E., New Haven, Conn. (47). 1891. F
Vest, Solomon Alexander, Assistant Chemist, Navassa Guano Co., Wilmington, N. C. (51). C
Villard, Mrs. Henry, 145 W. 58th St., New York, N. Y. (36).
Vinal, W. Irving, 1106 East Capitol St., Washington, D. C. (40). E
Vineberg, Hiram N., M. D., 751 Madison Ave., New York, N. Y. (51). K
*Vining, E. P., 49 Second St., San Francisco, Cal. (32). 1887. H
*Vogdes, A. W., Major, 5th Artillery, U. S. A., San Diego, Cal. (32). 1885. E F
Voje, John Henry, M. D., Private Sanatorium Waldheim, Oconomowoc, Wis. (51). K
von Herrmann, C. F., Section Dir. U. S. Weather Bureau, Raleigh, N. C. (51). B
von Ihering, F., Museu Paulista, Sao Paulo, Brazil. (51).
von Mansfelde, Alexander S., M. D., "Quality Hill," Ashland, Neb. (50). F G H K
*von Nardroff, Ernest R., 360a Tompkins Ave., Brooklyn, N. Y. (44). 1896. B
von Ruck, Karl, M. D., Director, Winyah Sanitarium, Asheville, N. C. (51). K
*von Schrenk, Hermann, Shaw School of Botany, St. Louis, Mo. (49). 1901. G
*Voorhees, Louis A., P. O. Box 290, New Brunswick, N. J. (43). 1895. C
Voris, Floyd Thomas, Professor of Natural Science, Buena Vista College, Storm Lake, Iowa. (50). B
Votey, J. William, Professor of Civil Engineering, University of Vermont, Burlington, Vt. (50). D
Vreeland, Frederick K., E. E., Box 1877, New York, N. Y. (50). B D G
Waddell, Montgomery, 135 Broadway, New York, N. Y. (51). D
Wade, John W., M. D., 318 N. Second St., Millville, N. J. (51). K

Wadman, W. E., 102 Lord Ave., Bayonne, N. J. (50).
*Wadsworth, M. Edw., Professor of Mining and Geology, Penna. State Coll., State College, Pa. (23). 1874. E
Wadsworth, William Austin, Genesee, Livingston, Co., N. Y. (50). G
*Wagner, Frank C., Rose Polytechnic Institute, Terre Haute, Ind. (34). 1897. D
Wagner, George, 1915 Niles Ave., St. Joseph, Mich. (46). F G
Wagner, Samuel, President of Wagner Free Institute of Science, Franklin Building, 133 S. 12th St., Philadelphia, Pa. (51).
Wainwright, Jacob T., Metallurgical Engineer, P. O. Box 774, Chicago, Ill. (51). D E
Wainwright, John William, M. D., 177 W. 83d St., New York, N. Y. (51). K
Waite, Frederick Clayton, Ph. D., Asst. Prof. of Histology and Embryology, Medical Department, Western Reserve Univ., Cleveland, Ohio. (50). F K
Waite, M. B., U. S. Dept. Agriculture, Washington, D. C. (37). G
*Walcott, Charles D., Director U. S. Geol. Survey, Washington, D. C. (25). 1882. E F
*Waldo, Prof. Clarence A., Purdue Universty, Lafayette, Ind. (37). 1889. A
*Waldo, Leonard, 520 Stelle Ave., Plainfield, N. J. (28). 1880. A
Wales, Charles M., M. E., 11 Broadway, New York, N. Y. (51). D
Wales, Salem H., 25 E. 55th St., New York, N. Y. (36).
Walker, Byron Edmund, Toronto, Can. (38). E
Walker, Charles R., M. D., Concord, N. H. (50). K
Walker, George C., Room 367, Rookery Building, Chicago, Ill. (17).
Walker, James, 49 Maiden Lane, New York, N. Y. (43).
Walker, John A., E. M., 260 Montgomery St., Jersey City, N. J. (50). C D E I
Walker, T. B., Pres., Minneapolis City Library Board, 803 Hennepin Ave., Minneapolis, Minn. (51).
Wallace, Edwin Corby, Ph. G., Foot of Sixth St., Long Island City, N. Y. (47).
Waller, Coleman Bailey, Vanderbilt Univ., Nashville, Tenn. (51). A B C
*WALLER, E., 7 Franklin Place, Morristown, N. J. (23). 1874.
Walls, John Abbet, 990a Sherbrooke St., Montreal, Can. (51). D
Walsh, James J., M. D., LL.D., Lecturer on Medicine, New York Polyclinic, 1973 Seventh Ave., New York, N. Y. (51). K
WALSH, THOMAS F., Le Roy and Phelps Place, Washington, D. C. (49). D
Walter, Miss Emma, 109 North 16th St., Philadelphia, Pa. (50). E
Walter, Rudolph J., Mining Engineer and Metallurgist, 1452 Blake St., Denver, Colo. (50). D E

Walter, W. J., 115 W. 57th St., New York, N. Y. (50).
Walters, John Daniel, Prof. of Industrial Art, Kan. State Agricultural College, Manhattan, Kan. (51). D
Walton, John C., M. D., Reidsville, N. C. (51). K
Wantland, C. E., U. P. R.R. Co., 1025 17th St., Denver, Colo. (50). E
Ward, Frank A., 16–26 College Ave., Rochester, N. Y. (40).
*Ward, Henry A., 620 Division St., Chicago, Ill. (13). 1875. E F H
*Ward, Prof. Henry B., University of Nebraska, Lincoln, Neb. (48). 1899. F
Ward, J. Langdon, 120 Broadway, New York, N. Y. (29). I
*Ward, Lester F., U. S. Geol. Survey, Washington, D. C. (26). 1879. E G
Ward, Louis Clinton, Teacher of Geology and Geography, Bloomington, Ind. (51). E
Ward, Milan Lester, Professor of Mathematics and Astronomy, Ottawa Univ., Ottawa, Kansas. (50). A
Ward, Robert De C., Harvard Univ., Cambridge, Mass. (47).
*Ward, Dr. R. H., 53 Fourth St., Troy, N. Y. (17). 1874. F G
Ward, Willard Parker, Ph. D., Mining Engineer, 164 W. 58th St., New York, N. Y. (50). D E
Warden, Albert W., M. D., 325 Fulton St., Weehawken, N. J. (51). K
Warder, Charles Barclay, M. D., 1305 N. Broad St., Philadelphia, Pa. (51). K
*Warder, Prof. Robert B., Howard University, Washington, D. C. (19). 1881. B C
Wardlaw, George A., Electrical Engineer, Amber Club, Shady Ave., Pittsburg, Pa. (51). D
Wardle, Harriet N., 125 N. 10th St., Philadelphia, Pa. (47). E H
Ware, Miss Mary L., 41 Brimmer St., Boston, Mass. (47).
*Ware, Wm. R., School of Architecture, Columbia University, New York, N. Y. (36). 1901. D
*Warington, Robert, F. R. S., Rothamsted, Harpenden, England. (40). 1899. C
Warner, Charles F., 837 State St., Springfield, Mass. (45). B
*Warner, James D., 463 E. 26th St., Flatbush, Brooklyn, N. Y. (18). 1874. A B
*Warner, Worcester R., 1722 Euclid Ave., Cleveland, Ohio. (33). 1888. A B D
Warren, Rt. Rev. Henry White, Bishop M. E. Church, University Park, Colo. (50). A
*Warren, Prof. Howard C., Princeton Univ., Princeton, N. J. (46). 1901. H K
*Warren, Joseph W., M. D., Bryn Mawr. Pa. (31). 1886. F
*Warren, S. Edward, Newton, Mass. (17). 1875. A I

Warren, William R., 81 Fulton St., New York, N. Y. (49).
Warrington, James N., 1711 South Hope St., Los Angeles, Cal. (34). **A B D**
*Washington, Dr. Henry S., Locust, N. J. (44). 1897. **E**
Waterhouse, James Smartt, Professor of Chemistry and Natural Science, Cumberland University, Lebanon, Tenn. (50). **C F G**
Watson, Benj. Mauston, Bussey Institution, Jamaica Plain, Mass. (50).
Watson, Miss C. A., North Andover, Mass. (31). **D**
Watson, Professor Joseph Ralph, 909 Fairmount St., Cleveland, Ohio. (50). **G**
Watson, Thomas A., Weymouth, Mass. (42). **E**
*Watson, Prof. Wm., 107 Marlborough St., Boston, Mass. (12). 1884. **A**
Watters, William, A. M., M. D., 26 S. Common St., Lynn, Mass. (40). **E G**
Watterson, Miss Ada, 153 W. 84th St., New York, N. Y. (49). **G**
*Wead, Charles K., U. S. Patent Office, Washington, D. C. (47). 1898. **B**
Weatherly, Ulysses Grant, Professor of Economics, University of Indiana, Bloomington, Ind. (50). **I**
Weaver, Edwin Oscar, Professor of Physics and Biology, Wittenberg College, Springfield, Ohio. (51). **B F G**
Weaver, Gerrit E., Hambleton, 916 Farragut Terrace, West Philadelphia, Pa. (38). **G I**
Webb, Howard Scott, Professor of Electrical Engineering, University of Maine, Orono, Maine. (50). **D**
*Webb, Prof. J. Burkitt, Stevens Institute, Hoboken, N. J. (31). 1883. **A B D**
*Webber, Herbert J., U. S. Dept. Agriculture, Washington, D. C. (47). 1900. **G**
*Weber, Prof. Henry A., Ohio State Univ., Columbus, Ohio. (35). 1888. **C**
Webster, Albert Lowry, C. E., Consulting Civil and Sanitary Engineer, 112 E. 40th St., New York, N. Y. (50). **C D**
*Webster, Prof. Arthur Gordon, Clark University, Worcester, Mass. (47). 1898. **A B**
Webster, Edgar H., Professor of Physical Science, Atlanta University, Altanta, Ga. (50). **B**
*Webster, Prof. F. M., Agric. Exper. Station, Wooster, Ohio. (35). 1890. **F**
Webster, Frederic S., Carnegie Museum, Pittsburg, Pa. (51). **E F H**
*Weed, Clarence M., Ph. D., Durham, N. H. (38). 1890. **F**
Weed, J. N., 244 Grand St., Newburgh, N. Y. (37). **E I**
Weeks, Edwin Ruthven, Consulting Engineer, 3408 Harrison St., Kansas City, Mo. (50). **A B D I**

Weeks, John Elmer, M. D., 46 E. 57th St., New York, N. Y. (51). K

*Weems, J. B., Ph. D., Agric. College, Ames, Iowa. (44). 1900. C

Weick, Charles W., Columbia University, New York, N. Y. (48). D

Weimer, Edgar A., M. E., Supt. Weimer Machine Works Co., Lebanon, Pa. (51). D

Weinzirl, John, Vice Director, Hadley Clim. Lab., Univ. of New Mexico, Albuquerque, New Mex. (45). G

*Welch, William Henry, M. D., 935 St. Paul St., Baltimore, Md. (47). 1900. F H

Weld, Laenas Gifford, Dean of Graduate College State University of Iowa, Iowa City, Iowa. (41). A

Welin, John E., Professor of Physics and Chemistry, Bethany College, Lindsborg, Kansas. (50). B C E

Wells, Eliab Horatio, M. D., Professor of Natural Science, Baylor Female College, Belton, Texas. (50). F K

Wells, Frank, M. D., 178 Devonshire St., Boston, Mass. (47). C

Wells, Samuel, 45 Commonwealth Ave., Boston, Mass. (24) H

Wells, William H., Jr., 2 Norfolk St., Strand, W. C., London, England. (39). E

WELSH, FRANCIS RALSTON, 328 Chestnut St., Philadelphia, Pa. (51).

Wenner, Francis W., Supt. of Public Schools, North Baltimore, Wood Co., Ohio. (51). B

Wernicke, Prof. Paul, 411 S. Limestone St., Lexington, Ky. (44). A B

Wesson, David, Southern Cotton Oil Co., Savannah, Ga. (50). C

West, Haarlem Ethneen, Mining Engineer, General Manager Pacific Northwest Mining Corporation, Libby, Mont. (50). D

West, Thomas Dyson, M. E., Mgr., T. D. West Engrg. Co., Sharpsville, Pa. (51). D

Westgate, Lewis Gardner, Ph. D., Professor of Geology, Ohio Wesleyan University, Delaware, Ohio. (51). E

Westinghouse, George, Pittsburg, Pa. (50). D

Westinghouse, Henry Herman, Wilmerding, Pa. (51). D

*Weston, Edward, 645 High St., Newark, N. J. (33). 1887. B C D

Wetzler, Joseph, 240–242 W. 23d St., New York, N. Y. (36).

Weygant, Colonel Charles H., Newburgh, N. Y. (50). I

Wheatland, Marcus F., M. D., 84 John St., Newport, R. I. (51). H K

Wheatley, Frank G., M. D., 47 Adams St., North Abington, Mass. (51). K

*Wheeler, Alvin Sawyer, Ph. D., Assistant Professor of Chemistry, University of North Carolina, Chapel Hill, N. C. (50). 1901. C

*Wheeler, Eben S., U. S. Engineer Office, Detroit, Mich. (50). 1901. D

*Wheeler, Henry Lord, Sheffield Lab., New Haven, Conn. (50). 1901. C

Wheeler, Schuyler Skaats, Ampere, N. J. (50). D

Wheeler, William, C. E., Concord, Mass. (41).

*Wheeler, William Morton, Professor of Zoology, University of Texas, Austin, Texas. (50). 1901. F

Whitaker, Milton C., Dept. of Chemistry, Columbia University, New York, N. Y. (50).

White, Charles G., Lake Linden, Mich. (46). B C

White, Charles H., U. S. N., Center Sandwich, N. H. (34). C

*White, David, U. S. Geol. Survey, Washington, D. C. (40). 1892. E F

*White, Horace, Editor "New York Evening Post," 18 W. 69th St., New York, N. Y. (50). 1901. E

*White, H. C., Ph. D., University of Georgia, Athens, Ga. (29). 1885. C

*White, Prof. I. C., State Geologist of West Virginia, Morgantown, W. Va. (25). 1882. E

White, John Williams, 18 Concord Ave., Cambridge, Mass. (47).

White, LeRoy S., 19 Buckingham Ave., Waterbury, Conn. (23).

White, Thaddeus R., 257 W. 45th St., New York, N. Y. (42). A

White, Walter Henry, M. D., 220 Marlborough St., Boston, Mass. (51). K

*Whitfield, J. Edward, 406 Locust St., Philadelphia, Pa. (44). 1896. C.

*Whitfield, R. P., Amer. Mus. Nat. History, Central Park, New York, N. Y. (18). 1874. E F H

Whiting, S. B., 11 Ware St., Cambridge, Mass. (33). D

*Whiting, Miss Sarah F., Wellesley College, Wellesley, Mass. (31). 1883. A B

*Whitman, Prof. Charles O., University of Chicago, Chicago, Ill. (43). 1898. F

*Whitman, Prof. Frank P., Adelbert College, Cleveland, Ohio. (33). 1885. A B

*Whitney, Miss Mary W., Vassar College, Poughkeepsie, N. Y. (47). 1900. A

*Whitney, Willis Rodney, Mass. Inst. Tech., Boston, Mass. (46). 1900. C

Whitted, Thomas Byrd, General Elec. Co., Denver, Colo. (50). D

Whittemore, Williams C., 1526 N. H. Ave., Washington, D. C. (49).

Wiechmann, F. G., M. D., 771 West End Ave., New York, N. Y. (50). F K

*Wiegand, Karl McKay, Ph. D., Cornell University, Ithaca, N. Y. (45). 1899. G

Wightman, Merle J., Electrical Engineer, 150 Nassau St., New York, N. Y. (50). D

Wilbour, Mrs. Charlotte B., 40 Central Park, South, New York, N. Y. (28).

*Wilbur, A. B., Middletown, N. Y. (23). 1874. E

*Wilbur, Ray Lyman, M. D., Assistant Professor of Physiology, Stanford University, Cal. (50). 1901. F K

*Wilcox, Edwin Mead, Ph. D., Prof. of Biology, Ala. Poly. Inst. Auburn, Ala. (50). 1901. F G

Wilcox, Miss Emily T., Middletown, Conn. (33). A B

*Wilcox, Miss Mary Alice, Ph. D., Professor of Zoology, Wellesley College, Wellesley, Mass. (50). 1901. F

*Willcox, Walter F., Ph. D., Professor of Economics, Cornell University, Ithaca, N. Y. (50). 1901. I

*Wilcox, William W., Inventor and Manufacturer, 187 South Main St., Middletown, Conn. (50). D I

Wilder, Burt Green, Prof. of Neurology, Cornell University, Ithaca, N. Y. (51). K

Wiley, Andrew J., C. E., Chief Engr. Boise-Payette River Electric Power Co., Boise, Idaho. (51). D

*Wiley, Harvey W., Ph. D., U. S. Dept. Agriculture, Washington, D. C. (21). 1874. C

Wiley, William H., C. E., 43 E. 19th St., New York, N. Y. (50). D E

Wilkins, Wm. Glyde, C. E., Professor of Mining Engineering, Western Univ. of Penna., Pittsburg, Pa. (50). D E

Wilkinson, Levi Washington, Professor of Industrial and Sugar Chemistry, Tulane University, New Orleans, La. (50). C

Willard, Julius Terrass, Dir. Kans. State Exper. Sta., Manhattan Kans. (50). C

Wille, Henry Valentin, M. E., Engineer of Tests, Baldwin Locomotive Works, 2600 Girard Ave., Philadelphia, Pa. (51). D

Williams, Arthur, The New York Edison Co., 55 Duane St., New York, N. Y. (50). D

*Williams, Benezette, 153 La Salle St., Chicago, Ill. (33). 1887. D

Williams, Charles B., North Carolina Dept. of Agric., Raleigh. N. C. (47).

*Williams, Charles H., M. D., 15 Arlington St., Boston, Mass. (22). 1874.

Williams, Charles S., 166 Montgomery St., Newburgh, N. Y. (50). I

*Williams, Prof. Edw. H., Jr., 117 Church St., Bethlehem, Pa. (25). 1894. D E

*Williams, Francis H., M. D., 505 Beacon St., Boston, Mass. (29). 1890.

Williams, Frank H., Greene, N. Y. (50). D

*Williams, Prof. Henry Shaler, Yale University, New Haven, Conn. (18). 1882. E F

Williams, Jacob Lafayette, M. D., 4 Walnut St., Boston, Mass. (51). K

*Williams, Dr. J. Whitridge, Professor of Obstetrics, Johns Hopkins University, Baltimore, Md. (50). 1901. **F K**

Williams, Miss Kate Elizabeth, 1450 Pearl St., Denver, Colo. (50). **E F I**

Williams, Stephen Riggs, Professor of Biology, Miami University, Oxford, Ohio. (50). **F**

Williamson, Edward Bruce, Bluffton, Ind. (50). **F**

Williamson, G. A., 14 Dey St., New York, N. Y. (49).

Williamson, Mrs. M. Burton, 1060 W. Jefferson St., Los Angeles, Cal. (44). **F**

*Willis, Bailey, U. S. Geological Survey, Washington, D. C. (36). 1890. **E**

*Willoughby, Charles C., Peabody Museum, Cambridge, Mass. (45). 1897. **H**

Wills, Joseph Lainson, F. C. S., Chief of Laboratories, National Brewers' Academy, 133 Midwood St., Brooklyn, N. Y. (50). **B C F**

WILMARTH, MRS. HENRY D., 51 Eliot St., Jamaica Plain, Mass. (40).

Wilmore, J. J., Director, Mechanical Department, Ala. Polytechnic Institute, Auburn, Ala. (51). **D**

Wilson, Prof. Andrew G., Hebron, Neb. (43). **E**

*Wilson, E. B., Columbia University, New York, N. Y. (49). 1900.

Wilson, Fredk. Morse, M. D., 834 Myrtle Ave., Bridgeport, Conn. (51). **K**

*Willson, Prof. Frederick N., Princeton, N. J. (33). 1887. **A D**

*Wilson, Henry Van Peters, Professor of Biology, University of North Carolina, Chapel Hill, N. C. (50). 1901. **F**

Wilson, John C., Cosmos Club, Washington, D. C. (49). **I**

*Wilson, Joseph Miller, Room 1030, Drexel Building, Philadelphia, Pa. (33). 1886. **D**

Willson, Mortimer, M. D., Port Huron, Mich. (50). **A F**

Wilson, Robert Lee, M. D., Assistant Surgeon, U. S. Marine Hospital Service, Box 274, Honolulu, T. H. (50). **K**

*Wilson, Robert N., Macleod, Alberta, Canada. (42). 1895. **H**

*Willson, Robert W., Cambridge, Mass. (30). 1890. **A B**

Wilson, William Hyatt, Prof. of Mathematics, Univ. of Wooster, Wooster, Ohio. (50). **A**

*Wilson, Prof. William Powell, Philadelphia Commercial Museum, 233 S. 4th St., Philadelphia, Pa. (38). 1889. **G**

Winchell, Alexander Newton, Professor of Geology and Mineralogy, State School of Mines, Butte, Mont. (50). **E**

*Winchell, Horace V., Butte, Montana. (34). 1890. **C E**

*Winchell, Prof. N. H., Minneapolis, Minn. (19). 1874. **E H**

Windesheim, Gustave, M. D., 255 Main St., Kenosha, Wis. (51). **K**

Windsor, Sarah Sweet, M. D., 138 Marlborough St., Boston, Mass. (47). **F H**

Wingate, Miss Hannah S., 58 W. 127th St., New York, N. Y. (31). **E I.**

*Winterhalter, A. G., Lt. Com. U. S. N., U. S. S. "Helena," care P. M., San Francisco, Cal. (37). 1893. **A**

*Withers, Prof. W. A., A. and M. College, Raleigh, N. C. (33). 1891. **C**

Witte, Max Ernest, M. D., Superintendent of Clarinda State Hospital, Clarinda, Ia. (51). **K**

*Witthaus, Dr. R. A., Cornell Medical College, 1st Ave., and 28th St., New York, N. Y. (35). 1890.

Wolcott, Mrs. Henrietta L. T., Dedham, Mass. (29).

Wolf, August S., Examiners' Room, Equitable Life Assurance Society, 120 Broadway, New York, N. Y. (49).

Wolfe, Elmer Ellsworth, Ph. D., Principal of the Academy, Marietta College, Marietta, Ohio. (51). **B C G**

*Wolff, Frank A., Jr., Ph. D., Asst. Physicist, N. B. S., 1429 R St. N.W., Washington, D. C. (47). 1900. **B**

*Wolff, Dr. John E., University Museum, Cambridge, Mass. (36). 1894. **E**

*Woll, Fritz Wilhelm, Madison, Wis. (42). 1897. **C**

Wolverton, Byron C., Engineer, N. Y. & Pa. Telephone and Telegraph Co., P. O. Box 43, Elmira, N. Y. (50). **D**

Wood, Mrs. Cynthia A., 171 W. 47th St., New York, N. Y. (43).

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Wood, Thomas D., M. D., Prof. of Physical Education, Teachers' College, Columbia University, N. Y. C. (51). **K**

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Woodbridge, Tyler Reed, C. E., care The Taylor and Brunton Sampling Co., Victor, Colo. (50). **D**

*Woodbury, C. J. H., Amer. Bell Telephone Co., 125 Milk St., Boston, Mass. (29). 1884. **D**

*Woodhull, John Francis, Teachers' College, Morningside Heights, New York, N. Y. (43). 1899.

*Woodman, Dr. Durand, 80 Beaver St., New York, N. Y. (41). 1896.

*Woods, Albert F., U. S. Dept. Agric., Washington, D. C. (43). 1897. **G**

*Woods, Charles D., Professor of Agriculture, University of Maine, Orono, Maine. (50). 1901. **G**

Woods, Fred. A., M. D., Harvard Medical School, Boston, Mass. (51). **K**

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*Woodward, Prof. Calvin M., Washington University, St. Louis, Mo. (32). 1884. **A D I**

*Woodward, R. S., Columbia University, New York, N. Y. (33). 1885. **A B D**

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*Wright, Prof. Albert A., Oberlin College, Oberlin, Ohio. (24). 1880. **E F**

*Wright, Prof. Arthur W., Yale University, New Haven, Conn. (14). 1874. **A B**

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*Wright, Carroll D., LL.D., Dept. of Labor, Washington, D. C. (41). 1894. **I**

*Wright, Prof. Geo. Frederick, Drawer C, Oberlin, Ohio. (29). 1882. **E H**

*Wright, John S., Eli Lily & Co., Indianapolis, Ind. (42). 1899. **G**

Wright, Jonathan, M. D., 73 Remsen St., Brooklyn, N. Y. (43). **K**

Wright, Walter Livingston, Jr., Professor of Mathematics, Lincoln University, Pa. (50). **A**

Wuensch, Alfred F., 1556 Detroit St., Denver, Colo. (50). **C D E**

WUNDERLICH, FREDERICK W., M. D., 165 Remsen St., Brooklyn, N. Y. (45).

Würtele, John Hunter, Acton Vale, P. Q., Canada. (48)

*Würtele, Rev. Louis C., Acton Vale, P. Q., Canada. (11). 1875. **E**

Wurts, Alexander Jay, Manager Nernst Lamp Co., Garrison Alley and Fayette St., Pittsburg. Pa. (50). **D**

Wyeth, John A., M. D., 19 W. 35th St., New York, N. Y. (51). **K**

Yanney, Benjamin F., Prof. Mathematics and Astronomy, Mt. Union College, Alliance, Ohio. (51). **A**

*Yarrow, Dr. H. C., 814 17th St. N.W., Washington, D. C. (23). 1874.

Yates, J. A., Professor of Natural Science, Ottawa University, Ottawa, Kan. (50). **B C G**

Yeates, William Smith, State Geologist, Atlanta, Ga. (50). **C E**

York, Lewis Edwin, Supt. Public Schools, Kingsville, Ohio. (50). **I**

Youmans, Vincent J., 175 Elm Place, Mount Vernon, N. Y. (43).

*Young, A. V. E., Northwestern University, Evanston, Ill. (33). 1886. **B C**

*Young, C. A., Princeton University, Princeton, N. J. (18). 1874. **A B D**

Young, Clinton Mason, 387 School St., Athol, Mass. (51). **K**

*Young, Stewart Woodford, Asst. Professor of Chemistry, Stanford University, Cal. (50). 1901. **C**

Young, Walter Douglas, E. E., B. & O. R.R. Co., 309 Oakdale Road, Roland Park, Baltimore, Md. (51). **D**

*Zalinski, E. L., U. S. A., Century Club, 7 W. 43d St., New York, N. Y. (36). 1891. **D**

*Zeleny, John, Associate Professor of Physics, University of Minnesota, Minneapolis, Minn. (50). 1901. **B**

*Ziwet, Alexander, 644 S. Ingalls St., Ann Arbor, Mich. (38). 1890. **A**

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(June 2, 1902.)

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NOTE.—The omission of an address in the foregoing list indicates that letters mailed to that last printed were returned as uncalled for. Information of the present address of the members so indicated is requested by the PERMANENT SECRETARY.

DECEASED MEMBERS.

[A list of deceased members of the Association, so far as known at the time of publishing the volume of Proceedings of the Springfield meeting, May, 1896, is given in that volume. At the Buffalo meeting the Council directed the Permanent Secretary to omit the printing of the full list of deceased members in the annual volumes and to print only the additions to the list. Since the publication of the list printed in the Denver Proceedings (Vol. 50) notices have been received of the decease of the following members.]

Goff, E. S., Madison, Wis. (35). Died June 6, 1902.

Hyatt, Alpheus, Natural History Society, Boston, Mass. (18). Born April 5, 1838. Died January 15, 1902.

Lacoe, Ralph D., 35 Exeter St., Pittston, Pa. (31).

Morton, H., Stevens Institute of Technology, Hoboken, N. J. (18).

ROBERTSON, THOMAS D., Rockford, Ill. (10). Born March 4, 1818. Died February 5, 1902.

Smith, J. Barry, S. J., Georgetown University, Washington, D. C. (50). Died September ,1901.

Smith, Miss Sara Winthrop, Nantucket, Mass. (50). Died January 2, 1902.

SMITH, USELMA C., 1515 Green St., Philadelphia, Pa. (33). Died May 2, 1902.

Stevens, Edwin A., Victor, Colo. (50). Died January, 1902.

Wilson, Thomas ,LL.D., U. S. National Museum, Washington, D. C. (36). Died May 4, 1902.

Wright, Rufus, 19 N. May St., Chicago, Ill. (37). Died April, 1900.

PROCEEDINGS

OF THE

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

8VO. PAPER. WITH NUMEROUS ILLUSTRATIONS.

Vol.	I.—Philadelphia Meeting,	1848,	pages	156,	published	1849.
	II.—Cambridge "	1849,	"	479,	"	1850.
	III.—Charleston "	1850,	"	239,	"	1850.
	IV.—New Haven "	1850,	"	449,	"	1851.
	V.—Cincinnati "	1851,	"	287,	"	1851.
	VI.—Albany "	1851,	"	480,	"	1852.
	VII.—Cleveland "	1853,	"	312,	"	1856.
	VIII.—Washington "	1854,	"	372,	"	1855.
	IX.—Providence "	1855,	"	357,	"	1856.
	X.—2d Albany "	1856,	"	547,	"	1857.
	XI.—Montreal "	1857,	"	449,	"	1858.
	XII.—Baltimore "	1858,	"	376,	"	1859.
	XIII.—Springfield "	1859,	"	444,	"	1860.
	XIV.—Newport "	1860,	"	328,	"	1861.
	XV.—Buffalo "	1866,	"	174,	"	1867.
	XVI.—Burlington "	1867,	"	218,	"	1868.
	XVII.—Chicago "	1868,	"	410,	"	1869.
	XVIII.—Salem "	1869,	"	352,	"	1870.
	XIX.—Troy "	1870,	"	427,	"	1871.
	XX.—Indianapolis "	1871,	"	491,	"	1872.
	XXI.—Dubuque "	1872,	"	339,	"	1873.
	XXII.—Portland "	1873,	"	660,	"	1874.
	XXIII.—Hartford "	1874,	"	378,	"	1874.
	XXIV.—Detroit "	1875,	"	541,	"	1876.
	XXV.—2d Buffalo "	1876,	"	424,	"	1877.
	XXVI.—Nashville "	1877,	"	456,	"	1878.
	XXVII.—St. Louis "	1878,	"	424,	"	1879.
	XXVIII.—Saratoga "	1879,	"	636,	"	1880.
	XXIX.—Boston "	1880,	"	875,	"	1881.
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	XXXI.—2d Montreal "	1882,	"	743,	"	1883.
	XXXII.—Minneapolis "	1883,	"	598,	"	1884.
	XXXIII.—2d Philadelphia "	1884,	"	831,	"	1885.
	XXXIV.—Ann Arbor "	1885,	"	662,	"	1886.
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	XXXVI.—New York "	1887,	"	466,	"	1888.
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	XXXVIII.—Toronto "	1889,	"	600,	"	1890.
	XXXIX.—2d Indianapolis "	1890,	"	597,	"	1891.
	XL.—2d Washington "	1891,	"	585,	"	1892.
	XLI.—Rochester "	1892,	"	496,	"	1893.
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	XLIII.—Brooklyn "	1894,	"	509,	"	1895.
	XLIV.—2d Springfield "	1895,	"	534,	"	1896.
	XLV.—4th Buffalo "	1896,	"	553,	"	1897.
	XLVI.—3d Detroit "	1897,	"	579,	"	1898.
	XLVII.—2d Boston "	1898,	"	744,	"	1898.
	XLVIII.—Columbus "	1899,	"	527,	"	1899.
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Address: L. O. HOWARD, Permanent Secretary,
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OIF.
DEAN M. E. COOLEY

CONSTITUTION

LIST OF MEETINGS, OFFICERS, COMMITTEES,

FELLOWS AND MEMBERS

OF THE

American Association for the Advancement of Science

SIXTY-THIRD MEETING
Washington, D. C.
December 27 to 30, 1911

SIXTY-FOURTH MEETING
Cleveland, Ohio
December 30, 1912, to January 4, 1913

SIXTY-FIFTH MEETING
Atlanta, Georgia
December 29, 1913, to January 3, 1914

SIXTY-SIXTH MEETING
Philadelphia, Pa.
December 28, 1914, to January 2, 1915

PUBLISHED BY THE PERMANENT SECRETARY
Corrected to June 22, 1915

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December 28, 1914, to January 2, 1915

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Corrected to June 22, 1915

EDITED BY
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Permanent Secretary

WASHINGTON
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1915

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(December 27 to 30, 1911.)

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Elected by the Council.—(For one year) J. MCK. CATTELL, J. M. COULTER, N. L. BRITTON; (for two years) H. L. FAIRCHILD, FRANZ BOAS, IRVING FISHER; (for three years) STEWART PATON, HENRY B. WARD, HENRY C. COWLES.

From the Affiliated Societies.—*American Chemical Society:* CHARLES H. HERTY, CHARLES L. PARSONS; *Geological Society of America:* A. P. COLEMAN, E. O. HOVEY; *Botanical Society of America:* D. H. CAMPBELL, GEORGE T. MOORE; *American Microscopical Society:* ROBERT H. WOLCOTT, H. L. SHANTZ; *American Psychological Association:* THOMAS H. HAINES; *American Society of Naturalists:* HENRY V. WILSON, B. M. DAVIS; *American Association of Economic Entomologists:* STEPHEN A. FORBES, C. L. MARLATT; *American Anthropological Association:* LIGHTNER WITMER, BERTHOLD LAUFER; *Astronomical and Astrophysical Society of America:* GEORGE C. COMSTOCK, FRANK SCHLESINGER; *American Physical Society:* ERNEST MERRITT, W. F. MAGIE; *Society of American Bacteriologists:* M. J. ROSENAU; *American Association of Anatomists:* SIMON H. GAGE; *Society for Horticultural Science:* L. C. CORBETT; *Entomological Society of America:* VERNON L. KELLOGG, PHILIP P. CALVERT; *American Society of Mechanical Engineers:* ALEXANDER C. HUMPHREYS, WILLIAM B JACKSON; *American Institute of Electrical Engineers:* W. S. FRANKLIN, G. W. PIERCE; *American Society of Civil Engineers:* CHARLES WARREN HUNT, GEORGE GIBBS; *American Institute of Mining Engineers:* WALDEMAR LINDGREN, J. B. TYRRELL; *American Medical Association:* GEORGE H. SIMMONS, GEORGE M. KOBER; *American Federation of Teachers of the Mathematical and the Natural Sciences:* HARRY W. TYLER, OTIS W. CALDWELL; *Association of American Geographers:* RICHARD E. DODGE, ISAIAH BOWMAN; *American Society of Zoologists:* C. P. SIGERFOOS; *American Phytopathological Society:* H. H. WHETZELL, C. L. SHEAR; *Society of American Foresters:* BERNHARD E. FERNOW.

*Deceased.

Officers of Sections for the San Francisco and Columbus Meetings.

(August 2 to 7, 1915, and December 27, 1915, to January 1, 1916.)

SECTION A—MATHEMATICS AND ASTRONOMY.

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Secretary.
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Nember of General Committee.
ALEXANDER ZIWET, Ann Arbor.

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*Deceased.

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A. C. TRUE, Washington.

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HERBERT A. GILL, Washington.

2. *Committee on the Policy of the Association.*‡

THE PRESIDENT; THE PERMANENT SECRETARY; (to serve for one year), ARTHUR A. NOYES, ROBERT S. WOODWARD, J. MCKEEN CATTELL; (to serve for two years), D. T. MACDOUGAL, WILLIAM J. HUMPHREYS, EDWARD L. NICHOLS; (to serve for three years), H. L. FAIRCHILD, EDWARD C. PICKERING, STEWART PATON.

3. *Committee on the Bibliography of Science.*

J. MCKEEN CATTELL, *Chairman;* ROBERT S. WOODWARD, JAMES LEWIS HOWE, WILLIAM TRELEASE, CHARLES B. DAVENPORT.

4. *Committee of One Hundred on National Health.*

IRVING FISHER, *Chairman;* PAUL KENNADAY, *Executive Secretary;* EDWARD T. DEVINE, *Secretary.*

5. *Committee on Organization and Membership.*

J. MCKEEN CATTELL, *Chairman;* L. O. HOWARD, ——————.

6. *Committee on Delegates from Government Bureaus and Scientific Institutions.*

STEWART PATON, *Chairman;* JAMES MCKEEN CATTELL, L. O. HOWARD.

7. *Committee on Expert Testimony.*

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8. *Committee of One Hundred on Scientific Research.*

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†All Committees are expected to present their reports to the Council not later than the third day of the meeting. Committees sending their reports to the Permanent Secretary one month before a meeting can have them printed for use at the meeting.

‡Three members to be elected annually. Non-attendance at the meetings for one year by any member will constitute resignation from this Committee.

*Deceased.

University of Chicago; R. H. CHITTENDEN, Professor of Physiological Chemistry, Yale University; ALFRED D. COLE, Professor of Physics, Ohio State University; EDWIN G. CONKLIN, Professor of Zoology, Princeton University; F. G. COTTRELL, U. S. Bureau of Mines, San Francisco, Cal.; JOHN M. COULTER, Professor of Botany, University of Chicago; W. T. COUNCILMAN, Professor of Pathology, Harvard University; CHARLES R. CROSS, Professor of Physics, Massachusetts Institute of Technology; C. B. DAVENPORT, Director of the Station for Experimental Evolution, Carnegie Institution; WILLIAM M. DAVIS, Emeritus Professor of Geology, Harvard University; ARTHUR L. DAY, Director of the Geophysical Laboratory, Carnegie Institution; JOHN DEWEY, Professor of Philosophy, Columbia University; H. H. DONALDSON, Professor of Neurology, Wistar Institute of Anatomy; H. L. FAIRCHILD, Professor of Geology, University of Rochester; W. G. FARLOW, Professor of Cryptogamic Botany, Harvard University; IRVING FISHER, Professor of Economics, Yale University; SIMON FLEXNER, Director of the Laboratories, Rockefeller Institute for Medical Research; EDWARD C. FRANKLIN, Professor of Organic Chemistry, Stanford University; THEODORE GILL,* Professor of Zoology, George Washington University; GEORGE L. GOODALE, Emeritus Professor of Botany, Harvard University; KARL E. GUTHE, Professor of Physics, University of Michigan; GEORGE E. HALE, Director of Mount Wilson Solar Observatory, Carnegie Institution; ROSS G. HARRISON, Professor of Comparative Anatomy, Yale University; JOHN F. HAYFORD, Director of the College of Engineering, Northwestern University; JOSEPH A. HOLMES, Chief of the Bureau of Mines; L. O. HOWARD, Chief of the Bureau of Entomology; CHARLES S. HOWE, President of the Case School of Applied Science; WILLIAM H. HOWELL, Professor of Physiology, The Johns Hopkins University; W. J. HUMPHREYS, Professor of Meteorology, U. S. Weather Bureau; REID HUNT, Professor of Pharmacology, Harvard University; DAVID STARR JORDAN, Chancellor, Stanford University; WILLIAM W. KEEN, Emeritus Professor of Surgery, Jefferson Medical College, President of the American Philosophical Society; JAMES F. KEMP, Professor of Geology, Columbia University; ARMIN O. LEUSCHNER, Professor of Astronomy, University of California; FRANK R. LILLIE, Professor of Embryology, University of Chicago; JACQUES LOEB, Head of Department of Experimental Biology, Rockefeller Institute for Medical Research; D. T. MACDOUGAL, Director of the Department of Botanical Research, Carnegie Institution; R. C. MACLAURIN, President of the Massachusetts Institute of Technology; J. PLAYFAIR MCMURRICH, Professor of Anatomy, University of Toronto; FRANKLIN P. MALL, Professor of Anatomy, Johns Hopkins University; C. F. MARVIN, Chief of the U. S. Weather Bureau; C. KENNETH MEES, Eastman Kodak Company, Rochester, N. Y.; T. C. MENDENHALL, President Emeritus, Worcester Polytechnic Institute; A. A. MICHELSON, Professor of Physics, University of Chicago; G. A. MILLER, Professor of Mathematics, University of Illinois; R. A. MILLIKAN, Professor of Physics, University of Chicago; CHARLES S. MINOT,* Professor of Comparative Anatomy, Harvard Medical School; E. H. MOORE, Professor of Mathematics, University of Chicago; GEORGE T. MOORE, Director of the Missouri Botanical Garden; T. H. MORGAN, Professor of Experimental Zoology, Columbia University; EDWARD W. MORLEY, Emeritus Professor of Chemistry, Western Reserve University; EDWARD S. MORSE, Director, Peabody Academy of Science; FOREST R. MOULTON, Professor of Astronomy, University of Chicago; HERBERT V. NEAL, Professor of Biology, Tufts College; EDWARD L. NICHOLS, Professor of Physics, Cornell University; ARTHUR A. NOYES, Director of the Research Laboratory of Physical Chemistry, Massachusetts Institute of Technology; W. A. NOYES, Professor of Chemistry, University of Illinois; HENRY F. OSBORN, President of the American Museum of Natural History, Research Professor of Zoology, Columbia University; R. M. PEARCE, Professor of

*Deceased.

Research Medicine, University of Pennsylvania; F. W. PUTNAM, Emeritus Professor of Anthropology, Harvard University; IRA REMSEN, Professor of Chemistry, Johns Hopkins University; THEODORE W. RICHARDS, Professor of Chemistry, Harvard University; EDWARD B. ROSA, Chief Physicist, Bureau of Standards; FRANK SCHLESINGER, Director of the Allegheny Observatory; WILLIAM T. SEDGWICK, Professor of Biology, Massachusetts Institute of Technology; EDGAR F. SMITH, Provost of the University of Pennsylvania; G. OTIS SMITH, Director of the U. S. Geological Survey; HUGH M. SMITH, U. S. Commissioner of Fisheries; THEOBALD SMITH, Professor of Comparative Pathology, Harvard University; JULIUS STIEGLITZ, Professor of Analytical Chemistry, University of Chicago; CH. WARDELL STILES, Zoologist, U. S. Public Health Service; SAMUEL W. STRATTON, Director of the Bureau of Standards; ELIHU THOMSON, Thomson-Houston and General Electric Companies; EDWARD B. TITCHENER, Professor of Psychology, Cornell University; OTTO H. TITTMANN, formerly chief of the U. S. Coast and Geodetic Survey; CHARLES R. VAN HISE, President of the University of Wisconsin; CHARLES D. WALCOTT, Secretary of the Smithsonian Institution; HENRY B. WARD, Professor of Zoology, University of Illinois; THOMAS L. WATSON, Professor of Economic Geology, University of Virginia, and Director of the Virginia Geological Survey; ARTHUR G. WEBSTER, Professor of Physics, Clark University; WILLIAM H. WELCH, Professor of Pathology, Johns Hopkins University, President of the National Academy of Sciences; WILLIAM M. WHEELER, Professor of Economic Entomology, Harvard University; WILLIS R. WHITNEY, Director of the Research Laboratory, General Electric Company; EDMUND B. WILSON, Professor of Zoology, Columbia University; ROBERT S. WOODWARD, President of the Carnegie Institution of Washington.

9. *Committee on Amendment of the Charter.*

CHARLES W. ELIOT, *Chairman;* E. C. PICKERING, ROSCOE POUND.

10. *Committee on Finance.*

ROBERT S. WOODWARD, *Chairman;* WILLIAM J. HUMPHREYS, L. O. HOWARD.

11. *Committee on Jane M. Smith Life Membership Fund.*

THE PRESIDENT, THE TREASURER, AND THE PERMANENT SECRETARY.

12. *Committee on the Pacific Coast Meeting.*

WILLIAM WALLACE CAMPBELL, *Chairman;* MAXWELL ADAMS, JOHN CASPER BRANNER, MELVIN AMOS BRANNON, ENOCH ALBERT BRYAN, WILLIAM ALANSON BRYAN, HENRY SMITH CARHART, CHARLES LINCOLN EDWARDS, WILLIAM TRUFANT FOSTER, GEORGE ELLERY HALE, MELLEN WOODMAN HASKELL, EUGENE WOLDEMAR HILGARD, GEORGE HOLMES HOWISON, OLIVER PEEBLES JENKINS, DAVID STARR JORDAN, VERNON LYMAN KELLOGG, CHARLES ATWOOD KOFOID, ALFRED LOUIS KROEBER, HENRY LANDES, ANDREW COWPER LAWSON, ARMIN OTTO LEUSCHNER, EXUM PERCIVAL LEWIS, JAMES HARVEY MCBRIDE, DANIEL TREMBLY MACDOUGAL, LILLIEN JANE MARTIN, JOHN CAMPBELL MERRIAM, JOSEPH FRANCIS MERRILL, AGNES CLAYPOLE MOODY, WILLIAM EMERSON RITTER, HARRIS JOSEPH RYAN, FERNANDO SANFORD, WILLIAM ALBERT SETCHELL, JOHN MAXON STILLMAN, LYMAN BRUMBAUGH STOOKEY, BENJAMIN IDE WHEELER.

13. *Committee on Organization of Brazilian Division.*

SEÑOR EDUARDO BRAGA, *Chairman.*

MEETINGS AND OFFICERS OF THE ASSOCIATION OF AMERICAN GEOLOGISTS AND NATURALISTS.

Meeting.	Date.	Place.	Chairman.	Secretary.	Assistant Secretary.	Treasurer.
1st	April 2, 1840,	Philadelphia,	Edw. Hitchcock,*	L. C. Beck,*		
2d	April 5, 1841,	Philadelphia,	Benj. Silliman,*	L. C. Beck,*	B. Silliman, Jr.,* C. B. Trego,*	
3d	April 25, 1842,	Boston,	S. G. Morton,*	C. T. Jackson,*	J. D. Whitney,* M. B. Williams,*	
4th	April 26, 1843,	Albany,	Henry D. Rogers,*	B. Silliman, Jr.,*		John Locke.*
5th	May 8, 1844,	Washington,	John Locke,*	B. Silliman, Jr.,* O. P. Hubbard,*		Douglas Houghton.*
6th	April 30, 1845,	New Haven,	Wm. B. Rogers,*	B. Silliman, Jr.,* J. Law. Smith,*		Douglas Houghton.*
7th	Sept. 2, 1846,	New York,	C. T. Jackson,*	B. Silliman, Jr.,*		E. C. Herrick.*
8th	Sept. 20, 1847,	Boston,	Wm. B. Rogers,*†	Jeffries Wyman,*		B. Silliman, Jr.*

* Deceased.

† Professor Rogers, as chairman of this last meeting, called the first meeting of the new Association to order and presided until it was fully organized by the adoption of a constitution. As he was thus the first presiding officer of the new Association, it was directed at the Hartford meeting that his name be placed at the head of the Past Presidents of the American Association for the Advancement of Science.

MEETINGS, A. A. A. S.

Meetings.	Place.	Date.	Members in attendance.	Number of members.
1	Philadelphia	Sept. 20, 1848	(?)	461
2	Cambridge	Aug. 14, 1849	(?)	540
3	Charleston	Mar. 12, 1850	(?)	622
4	New Haven	Aug. 19, 1850	(?)	704
5	Cincinnati	May 5, 1851	87	800
6	Albany	Aug. 19, 1851	194	769
7	Cleveland	July 28, 1853	(?)	940
8	Washington	April 26, 1854	168	1,004
9	Providence	Aug. 15, 1855	166	605
10	2d Albany	Aug. 20, 1856	381	722
11	Montreal	Aug. 12, 1857	351	946
12	Baltimore	April 28, 1858	190	962
13	Springfield	Aug. 3, 1859	190	862
14	Newport	Aug. 1, 1860	135	644
15	Buffalo	Aug. 15, 1866	79	637
16	Burlington	Aug. 21, 1867	73	415
17	Chicago	Aug. 5, 1868	259	686
18	Salem	Aug. 18, 1869	244	511
19	Troy	Aug. 17, 1870	188	536
20	Indianapolis	Aug. 16, 1871	196	668
21	Dubuque	Aug. 15, 1872	164	610
22	Portland	Aug. 20, 1873	195	670
23	Hartford	Aug. 12, 1874	224	722
24	Detroit	Aug. 11, 1875	165	807
25	2d Buffalo	Aug. 23, 1876	215	867
26	Nashville	Aug. 29, 1877	173	953
27	St. Louis	Aug. 21, 1878	134	962
28	Saratoga	Aug. 27, 1879	256	1,030
29	Boston	Aug. 25, 1880	997	1,555
30	2d Cincinnati	Aug. 17, 1881	500	1,699
31	2d Montreal	Aug. 23, 1882	937	1,922
32	Minneapolis	Aug. 15, 1883	328	2,033
33	2d Philadelphia	Sept. 3, 1884	*1,261	1,981
34	Ann Arbor	Aug. 26, 1885	364	1,956
35	3d Buffalo	Aug. 18, 1886	445	1,886
36	New York	Aug. 10, 1887	729	1,956
37	2d Cleveland	Aug. 14, 1888	342	1,964
38	Toronto	Aug. 26, 1889	424	1,952
39	2d Indianapolis	Aug. 19, 1890	364	1,944
40	2d Washington	Aug. 19, 1891	†653	2,054
41	Rochester	Aug. 17, 1892	456	2,037
42	Madison	Aug. 17, 1893	290	1,939
43	Brooklyn	Aug. 15, 1894	488	1,802
44	2d Springfield	Aug. 28, 1895	368	1,913
45	4th Buffalo	Aug. 24, 1896	333	1,890
46	2d Detroit	Aug. 9, 1897	‡283	1,782
47	2d Boston	Aug. 22, 1898	903	1,729
48	Columbus	Aug. 21, 1899	353	1,721
49	2d New York	June 25, 1900	434	1,925
50	Denver	Aug. 24, 1901	311	2,703
51	Pittsburgh	June 28 to July 3, 1902	435	3,473
52	3d Washington	Dec. 29, 1902, to Jan. 3, 1903	975	3,992
53	2d St. Louis	Dec. 26, 1903, to Jan. 1, 1904	385	4,005
54	3d Philadelphia	Dec. 28 to 31, 1904	890	4,041
55	New Orleans	Dec. 28, 1905, to Jan. 2, 1906	233	4,321
56	Ithaca	June 28 to July 3, 1906	232	4,425
57	3d New York	Dec. 27, 1906, to Jan. 2, 1907	934	4,498
58	2d Chicago	Dec. 30, 1907, to Jan. 4, 1908	725	5,114
59	Hanover	June 29 to July 3, 1908	125	6,072
60	2d Baltimore	Dec. 28, 1908, to Jan. 2, 1909	1,088	6,136
61	3d Boston	Dec. 27, 1909, to Jan. 1, 1910	1,140	7,950
62	2d Minneapolis	Dec. 27 to 31, 1910	663	8,012
63	4th Washington	Dec. 27 to 30, 1911	1,402	8,041
64	3d Cleveland	Dec. 30, 1912, to Jan. 4, 1913	720	8,333
65	Atlanta	Dec. 29, 1913, to Jan. 3, 1914	450	8,350
66	4th Philadelphia	Dec. 28, 1914, to Jan. 2, 1915	1,319	8,325

*Including 303 Members of the British Association and 9 other foreign guests.
†Including 24 Foreign Honorary Members for the meeting.
‡Including 15 Foreign Honorary Members and Associates for the meeting.

Officers of the Meetings of the Association.

[The number before the name is that of the meeting; the year of the meeting follows the name; the asterisk after a name indicates that the member is deceased.]

PRESIDENTS.

1. WM. B. ROGERS,* 1848.
   W. C. REDFIELD,* 1848.
2. JOSEPH HENRY,* 1849.
3. A. D. BACHE,* March meeting, 1850, in the absence of
4. JOSEPH HENRY.* August meeting, 1850.
5. May meeting, 1851.
6. LOUIS AGASSIZ,* August meeting, 1851.
   (No meeting in 1852.)
7. BENJAMIN PIERCE,* 1853.
8. JAMES D. DANA,* 1854.
9. JOHN TORREY,* 1855.
10. JAMES HALL,* 1856.
11. ALEXIS CASWELL,* 1857, in place of J. W. BAILEY,* deceased.
12. 1858, in the absence of JEFFRIES WYMAN.*
13. STEPHEN ALEXANDER,* 1859.
14. ISAAC LEA,* 1860.
    (No meetings for 1861–65.)
15. F. A. P. BARNARD,* 1866.
16. J. S. NEWBERRY,* 1867.
17. B. A. GOULD,* 1868.
18. J. W. FOSTER,* 1869.
19. T. STERRY HUNT,* 1870, in the absence of WM. CHAUVENET.*
20. ASA GRAY,* 1871.
21. J. LAWRENCE SMITH,* 1872.
22. JOSEPH LOVERING,* 1873.
23. J. L. LECONTE,* 1874.
24. J. E. HILGARD,* 1875.
25. WILLIAM B. ROGERS,* 1876.
26. SIMON NEWCOMB,* 1877.
27. O. C. MARSH,* 1878.
28. G. F. BARKER,* 1879.
29. LEWIS H. MORGAN,* 1880.
30. G. J. BRUSH,* 1881.
31. J. W. DAWSON,* 1882.
32. C. A. YOUNG,* 1883.
33. J. P. LESLEY,* 1884.
34. H. A. NEWTON,* 1885.
35. EDWARD S. MORSE, 1886.
36. S. P. LANGLEY,* 1887.
37. J. W. POWELL,* 1888.
38. T. C. MENDENHALL, 1889.
39. G. LINCOLN GOODALE, 1890.
40. ALBERT B. PRESCOTT,* 1891.
41. JOSEPH LECONTE,* 1892.
42. WILLIAM HARKNESS,* 1893.
43. DANIEL G. BRINTON,* 1894.
44. E. W. MORLEY, 1895.
45. EDWARD D. COPE,* 1896. THEODORE GILL,* as senior vice-president acted after the death of Professor COPE.
46. WOLCOTT GIBBS,* 1897, absent. W. J. MCGEE,* Acting President.
47. F. W. PUTNAM, 1898.
48. EDWARD ORTON,* 1899. MARCUS BENJAMIN, as senior vice-president, acted until the election of GROVE K. GILBERT by the General Committee, December, 1899, to fill the vacancy caused by the death of Professor ORTON.

49. R. S. WOODWARD, 1900.
50. C. S. MINOT,* 1901.
51. ASAPH HALL,* 1902.
52. IRA REMSEN, 1902.
53. CARROLL D. WRIGHT,* 1903.
54. W. G. FARLOW, 1904.
55. C. M. WOODWARD,* 1905.
56. W. H. WELCH, 1906.
57. W. H. WELCH, 1906.
58. E. L. NICHOLS, 1907.
59. T. C. CHAMBERLIN, 1908.
60. T. C. CHAMBERLIN, 1908.
61. DAVID S. JORDAN, 1909.
62. A. A. MICHELSON, 1910.
63. CHARLES E. BESSEY,* 1911.
64. E. C. PICKERING, 1912.
65. E. B. WILSON, 1913.
66. CHARLES W. ELIOT, 1914.
67. W. W. CAMPBELL, 1915.
68. W. W. CAMPBELL, 1915.

VICE-PRESIDENTS.

There were no Vice-Presidents until the 11th meeting, when there was a single Vice-President for each meeting. At the 24th meeting, the Association met in Sections A and B, each presided over by a Vice-President. At the 31st meeting nine sections were organized, each with a Vice-President as its presiding officer. In 1886, Section G (Microscopy) was given up. In 1892, Section F was divided into F, Zoology; G, Botany.

1857–1874.

11. ALEXIS CASWELL,* 1857, acted as President.
12. JOHN E. HOLBROOK,* 1858, not present.
13. EDWARD HITCHCOCK,* 1859.
14. B. A. GOULD,* 1860.
15. B. A. GOULD,* 1866, in the absence of R. W. GIBBES.*
16. WOLCOTT GIBBS,* 1867.
17. CHAS. WHITTLESEY,* 1868.
18. OGDEN N. ROOD,* 1869.
19. T. STERRY HUNT,* 1870, acted as President.
20. G. F. BARKER,* 1871.
21. ALEX. WINCHELL,* 1872.
22. A. H. WORTHEN,* 1873, not present.
23. C. S. LYMAN,* 1874.

1875–1881.

Section A.—Mathematics, Physics, and Chemistry.

24. H. A. NEWTON,* 1875.
25. C. A. YOUNG,* 1876.
26. R. H. THURSTON,* 1877, in the absence of E. C. PICKERING.
27. R. H. THURSTON,* 1878.
28. S. P. LANGLEY,* 1879.
29. ASAPH HALL,* 1880.
30. WM. HARKNESS,* 1881, in the absence of A. M. MAYER.*

Section B.—Natural History.

24. J. W. DAWSON,* 1875.
25. EDWARD S. MORSE, 1876.
26. O. C. MARSH,* 1877.
27. AUG. R. GROTE,* 1878.
28. J. W. POWELL,* 1879.
29. ALEX. AGASSIZ,* 1880.
30. EDWARD T. COX,* 1881, in the absence of GEORGE ENGELMANN.*

CHAIRMEN OF SUBSECTIONS, 1875–1881.

Subsection of Chemistry.

24. S. W. JOHNSON,* 1875.
25. G. F. BARKER,* 1876.
26. N. T. LUPTON,* 1877.
27. F. W. CLARKE, 1878.
28. F. W. CLARKE, 1879, in the absence of IRA REMSEN.
29. J. M. ORDWAY,* 1880.
30. G. C. CALDWELL,* 1881, in the absence of W. R. NICHOLS.*

Subsection of Microscopy.

25. R. H. WARD, 1876.
26. R. H. WARD, 1877.
27. R. H. WARD, 1878, in the absence of G. S. BLACKIE.*
28. E. W. MORLEY, 1879.
29. S. A. LATTIMORE,* 1880.
30. A. B. HERVEY, 1881.

Subsection of Anthropology.

24. LEWIS H. MORGAN,* 1875.
25. LEWIS H. MORGAN,* 1876.
26. DANIEL WILSON,* 1877, not present.
27. United with Section B.
28. DANIEL WILSON,* 1879.
29. J. W. POWELL,* 1880.
30. GARRICK MALLERY,* 1881.

Subsection of Entomology.

30. J. G. MORRIS,* 1881.

VICE-PRESIDENTS OF SECTIONS, 1882—

Section A.—Mathematics and Astromomy.

31. W. A. ROGERS,* 1882, in the absence of WM. HARKNESS.*
32. W. A. ROGERS,* 1883.
33. H. T. EDDY, 1884.
34. WM. HARKNESS,* 1885, in the absence of J. M. VAN VLECK.*
35. J. W. GIBBS,* 1886.
36. J. R. EASTMAN,* 1887, in place of W. FERREL,* resigned.
37. ORMOND STONE, 1888.
38. R. S. WOODWARD, 1889.
39. S. C. CHANDLER,* 1890.
40. E. W. HYDE, 1891.
41. J. R. EASTMAN,* 1892.
42. C. L. DOOLITTLE, 1893.
43. { G. C. COMSTOCK, 1894. / EDGAR FRISBY, 1894. }
44. EDGAR FRISBY, 1895, in place of E. S. HOLDEN,* resigned.
45. ALEX. MACFARLANE,* 1896, in place of WM. E. STORY, resigned.
46. W. W. BEMAN, 1897.
47. E. E. BARNARD, 1898.
48. ALEX. MACFARLANE,* 1899.
49. ASAPH HALL, JR., 1900.
50. JAMES MCMAHON, 1901.
51. G. W. HOUGH,* 1902.
52. GEORGE BRUCE HALSTED, 1902.
53. O. H. TITTMANN, 1903.
54. ALEXANDER ZIWET, 1904.
55. ALEXANDER ZIWET, 1905, in the absence of W. S. EICHELBERGER.
56. EDWARD KASNER, 1906.
57. EDWARD KASNER, 1906.
58. E. O. LOVETT, 1907.
59. C. J. KEYSER, 1908.
60. C. J. KEYSER, 1908.
61. E. W. BROWN, 1909.
62. E. H. MOORE, 1910.
63. EDWIN B. FROST, 1911.
64. E. B. VAN VLECK, 1912.
65. FRANK SCHLESINGER, 1913.
66. HENRY S. WHITE, 1914.
67. A. O. LEUSCHNER, 1915.
68. A. O. LEUSCHNER, 1915.

Section B.—Physics.

31. T. C. MENDENHALL, 1882.
32. H. A. ROWLAND,* 1883.
33. J. TROWBRIDGE, 1884.
34. S. P. LANGLEY,* 1885, in place of C. F. BRACKETT,* resigned.

VICE-PRESIDENTS OF SECTIONS, CONTINUED.

35. C. F. BRACKETT,* 1886.
36. W. A. ANTHONY,* 1887.
37. A. A. MICHELSON, 1888.
38. H. S. CARHART, 1889.
39. CLEVELAND ABBE, 1890.
40. F. E. NIPHER, 1891.
41. B. F. THOMAS,* 1892.
42. E. L. NICHOLS, 1893.
43. WM. A. ROGERS,* 1894.
44. W. LECONTE STEVENS, 1895.
45. CARL LEO MEES, 1896.
46. CARL BARUS, 1897.
47. F. P. WHITMAN, 1898.
48. ELIHU THOMSON, 1899.
49. ERNEST MERRITT, 1900.
50. D. B. BRACE,* 1901.
51. W. S. FRANKLIN, 1902.
52. ERNEST F. NICHOLS, 1902.
53. E. H. HALL, 1903.
54. WM. F. MAGIE, 1904.
55. HENRY CREW, 1905.
56. W. C. SABINE, 1906.
57. W. C. SABINE, 1906.
58. D. C. MILLER, 1907.
59. KARL E. GUTHE, 1908.
60. KARL E. GUTHE, 1908.
61. LOUIS A. BAUER, 1909.
62. EDWARD B. ROSA, 1910.
63. R. A. MILLIKAN, 1911.
64. A. G. WEBSTER, 1912.
65. ALFRED D. COLE, 1913.
66. ANTHONY ZELENY, 1914.
67. E. PERCIVAL LEWIS, 1915.
68. E. PERCIVAL LEWIS, 1915.

Section C.—Chemistry.

31. H. C. BOLTON,* 1882.
32. E. W. MORLEY, 1883.
33. J. W. LANGLEY, 1884.
34. N. T. LUPTON,* 1885, in the absence of W. R. NICHOLS.*
35. H. W. WILEY, 1886.
36. A. B. PRESCOTT,* 1887.
37. C. E. MUNROE, 1888.
38. W. L. DUDLEY,* 1889.
39. R. B. WARDER,* 1890.
40. R. C. KEDZIE,* 1891.
41. ALFRED SPRINGER, 1892.
42. EDWARD HART, 1893.
43. T. H. NORTON, 1894.
44. WM. MCMURTRIE,* 1895.
45. W. A. NOYES, 1896.
46. W. P. MASON, 1897.
47. EDGAR F. SMITH, 1898.
48. F. P. VENABLE, 1899.
49. JAS. LEWIS HOWE, 1900.
50. JOHN H. LONG, 1901.
51. H. A. WEBER,* 1902.
52. CHARLES BASKERVILLE, 1902.
53. W. D. BANCROFT, 1903.
54. L. P. KINNICUTT,* 1904.
55. L. P. KINNICUTT,* 1905, in the absence of C. F. MABERY.
56. CLIFFORD RICHARDSON, 1906.
57. CLIFFORD RICHARDSON, 1906.
58. H. P. TALBOT, 1907.
59. LOUIS KAHLENBERG, 1908.
60. LOUIS KAHLENBERG, 1908.
61. WM. MCPHERSON, 1909.
62. G. B. FRANKFORTER, 1910.
63. FRANK K. CAMERON, 1911.
64. W. LASH MILLER, 1912.
65. C. L. ALSBERG, 1913.
66. EDGAR F. SMITH, 1914.
67. WILLIAM MCPHERSON, 1915.
68. WILLIAM MCPHERSON, 1915.

Section D.—Engineering.

31 W P. TROWBRIDGE,* 1882.
32. DEVOLSON WOOD, 1883, absent, but place was not filled.
33. R. H. THURSTON,* 1884.
34. J. BURKITT WEBB, 1885.
35. O. CHANUTE,* 1886.
36. E. B. COXE, 1887.
37. C. J. H. WOODBURY, 1888.
38. JAMES E. DENTON, 1889.
39. JAMES E. DENTON, 1890, in place of A. BEARDSLEY, absent.

VICE-PRESIDENTS OF SECTIONS, CONTINUED.

40. THOMAS GRAY,* 1891.
41. J. B. JOHNSON,* 1892.
42. S. W. ROBINSON,* 1893.
43. MANSFIELD MERRIMAN, 1894.
44. WILLIAM KENT, 1895.
45. FRANK O. MARVIN, 1896.
46. JOHN GALBRAITH, 1897.
47. JOHN GALBRAITH, 1898, in the absence of M. E. COOLEY.
48. STORM BULL,* 1899.
49. JOHN A. BRASHEAR, 1900.
50. H. S. JACOBY, 1901.
51. J. J. FLATHER, 1902.
52. CLARENCE A. WALDO, 1902.
53. C. M. WOODWARD,* 1903.
54. C. M. WOODWARD,* 1904, in the absence of D. S. JACOBUS.
55. F. W. MCNAIR, 1905.
56. W. R. WARNER, 1906.
57. W. R. WARNER, 1906.
58. O. H. LANDRETH, 1907.
59. GEORGE F. SWAIN, 1908.
60. GEORGE F. SWAIN, 1908.
61. JOHN F. HAYFORD, 1909.
62. A. LAWRENCE ROTCH,* 1910.
63. CHARLES S. HOWE, 1911.
64. JOSEPH A. HOLMES, 1912.
65. OZNI P. HOOD, 1913.
66. F. W. TAYLOR,* in place of ALFRED NOBLE, deceased, 1914.
67. BION J. ARNOLD, 1915.
68. BION J. ARNOLD, 1915.

Section E.—Geology and Geography.

31. E. T. COX,* 1882.
32. C. H. HITCHCOCK, 1883.
33. N. H. WINCHELL,* 1884.
34. EDWARD ORTON,* 1885.
35. T. C. CHAMBERLIN, 1886.
36. G. K. GILBERT, 1887.
37. GEORGE H. COOK,* 1888.
38. CHARLES A. WHITE,* 1889.
39. JOHN C. BRANNER, 1890.
40. J. J. STEVENSON, 1891.
41. H. S. WILLIAMS, 1892.
42. CHARLES D. WALCOTT, 1893.
43. SAMUEL CALVIN,* 1894.
44. JED HOTCHKISS,* 1895.
45. B. K. EMERSON, 1896.
46. { I. C. WHITE, 1897. / E. W. CLAYPOLE,* 1897. }
47. H. L. FAIRCHILD, 1898.
48. J. F. WHITEAVES,* 1899.
49. J. F. KEMP, 1900.
50. C. R. VAN HISE, 1901.
51. JOSEPH A. HOLMES, 1902, in the absence of O. A. DERBY.
52. WM. M. DAVIS, 1902.
53. I. C. RUSSELL,* 1903.
54. EUGENE A. SMITH, 1904.
55. WM. NORTH RICE, 1905.
56. A. C. LANE, 1906.
57. A. C. LANE, 1906.
58. J. P. IDDINGS, 1907.
59. BAILEY WILLIS, 1908.
60. BAILEY WILLIS, 1908.
61. REGINALD W. BROCK, 1909.
62. CHRISTOPHER W. HALL,* 1910.
63. BOHUMIL SHIMEK, 1911.
64. JAMES E. TODD, 1912.
65. JOSEPH S. DILLER, 1913.
66. U. S. GRANT, 1914.
67. CHARLES S. PROSSER, 1915.
68. CHARLES S. PROSSER, 1915.

Section F.—Biology, 1882–1892.

31. W. H. DALL, 1882.
32. W. J. BEAL, 1883.
33. E. D. COPE,* 1884.
34. T. J. BURRILL, 1885, in the absence of B. G. WILDER.
35. H. P. BOWDITCH, 1886.
36. W. G. FARLOW, 1887.
37. C. V. RILEY,* 1888.
38. GEORGE L. GOODALE, 1889.
39. C. S. MINOT,* 1890.
40. J. M. COULTER, 1891.
41. S. H. GAGE, 1892.

VICE-PRESIDENTS OF SECTIONS, CONTINUED.

Section F.—Zoology.

42. HENRY F. OSBORN, 1893.
43. J. A. LINTNER,* 1894, in place of S. H. SCUDDER,* resigned.
44. L. O. HOWARD, 1895, in place of D. S. JORDAN, resigned.
45. THEO. GILL,* 1896.
46. L. O. HOWARD, 1897, in place of G. BROWN GOODE,* deceased.
47. A. S. PACKARD,* 1898.
48. S. H. GAGE, 1899.
49. C. B. DAVENPORT, 1900.
50. D. S. JORDAN, 1901.
51. E. L. MARK, 1902, in the absence of C. C. NUTTING.
52. C. W. HARGITT, 1902.
53. E. L. MARK, 1903.
54. C. HART MERRIAM, 1904.
55. H. B. WARD, 1905.
56. E. G. CONKLIN, 1906.
57. E. G. CONKLIN, 1906.
58. E. B. WILSON, 1907.
59. C. J. HERRICK, 1908.
60. C. J. HERRICK, 1908.
61. W. E. RITTER, 1909.
62. JACOB REIGHARD, 1910.
63. H. F. NACHTRIEB, 1911.
64. WILLIAM A. LOCY, 1912.
65. ALFRED G. MAYER, 1913.
66. FRANK R. LILLIE, 1914.
67. VERNON L. KELLOGG, 1915.
68. VERNON L. KELLOGG, 1915.

Section G.—Microscopy, 1882–85.

31. A. H. TUTTLE, 1882.
32. J. D. COX,* 1883.
33. T. G. WORMLEY,* 1884.
34. S. H. GAGE, 1885.
(Section united with F in 1886.)

Section G.—Botany.

42. CHARLES E. BESSEY,* 1893.
43. {L. M. UNDERWOOD,* 1894.
{C. E. BESSEY,* 1894.
44. J. C. ARTHUR, 1895.
45. N. L. BRITTON, 1896.
46. G. F. ATKINSON, 1897.
47. W. G. FARLOW, 1898.
48. C. R. BARNES,* 1899.
49. W. TRELEASE, 1900.
50. B. T. GALLOWAY, 1901.
51. C. E. BESSEY,* 1902, in the absence of D. H. CAMPBELL.
52. F. V. COVILLE, 1902.
53. T. H. MACBRIDE, 1903.
54. B. L. ROBINSON, 1904.
55. B. L. ROBINSON, 1905, in the absence of ERWIN F. SMITH.
56. D. T. MACDOUGAL, 1906.
57. D. T. MACDOUGAL, 1906.
58. C. E. BESSEY,* 1907.
59. H. M. RICHARDS, 1908.
60. H. M. RICHARDS, 1908.
61. D. P. PENHALLOW,* 1909.
62. ROBERT A. HARPER, 1910.
63. F. C. NEWCOMBE, 1911.
64. DUNCAN S. JOHNSON, 1912.
65. HENRY C. COWLES, 1913.
66. GEORGE P. CLINTON, 1914.
67. WM. A. SETCHELL, 1915.
68. WM. A. SETCHELL, 1915.

Section H.—Anthropology and Psychology.

31. ALEX. WINCHELL,* 1882.
32. OTIS T. MASON,* 1883.
33. EDWARD S. MORSE, 1884.
34. J. OWEN DORSEY,* 1885, in the absence of W. H. DALL.
35. HORATIO HALE,* 1886.
36. D. G. BRINTON,* 1887.
37. CHARLES C. ABBOTT, 1888.
38. GARRICK MALLERY,* 1889.
39. FRANK BAKER, 1890.
40. JOSEPH JASTROW, 1891.
41. W. H. HOLMES, 1892.
42. J. OWEN DORSEY,* 1893.
43. FRANZ BOAS, 1894.

VICE-PRESIDENTS OF SECTIONS, CONTINUED.

44. F. H. CUSHING,* 1895.
45. ALICE C. FLETCHER, 1896.
46. W. J. MCGEE,* 1897.
47. J. MCK. CATTELL, 1898.
48. THOMAS WILSON,* 1899.
49. A. W. BUTLER, 1900.
50. J. WALTER FEWKES, 1901.
51. STEWART CULIN, 1902.
52. GEO. A. DORSEY, 1902.
53. M. H. SAVILLE, 1903.
54. WALTER HOUGH, 1904.
55. GEORGE GRANT MACCURDY, 1905.
56. HUGO MUNSTERBERG, 1906.
57. A. L. KROEBER, 1906.
58. FRANZ BOAS, 1907.
59. R. S. WOODWORTH, 1908.
60. R. S. WOODWORTH, 1908.
61. WM. H. HOLMES, 1909.
62. ROLAND B. DIXON, 1910.
63. GEORGE T. LADD, 1911.
64. J. WALTER FEWKES, 1912.
65. WALTER B. PILLSBURY, 1913.
66. CLARK WISSLER, 1914.
67. LILLIEN J. MARTIN, 1915.
68. LILLIEN J. MARTIN, 1915.

Section I.—Social and Economic Science.

31. E. B. ELLIOTT,* 1882.
32. FRANKLIN B. HOUGH,* 1883.
33. JOHN EATON,* 1884.
34. EDWARD ATKINSON,* 1885.
35. JOSEPH CUMMINGS,* 1886.
36. H. E. ALVORD,* 1887.
37. CHARLES W. SMILEY, 1888.
38. CHARLES S. HILL, 1889.
39. J. RICHARDS DODGE,* 1890.
40. EDMUND J. JAMES, 1891.
41. L. F. WARD,* 1892, in place of S. D. HORTON,* resigned.
42. WILLIAM H. BREWER,* 1893.
43. HENRY FARQUHAR, 1894.
44. B. E. FERNOW, 1895.
45. W. R. LAZENBY, 1896.
46. R. T. COLBURN,* 1897.
47. ARCHIBALD BLUE,* 1898.
48. MARCUS BENJAMIN, 1899.
49. MARCUS BENJAMIN, 1900, in the absence of C. M. WOODWARD.*
50. JOHN HYDE, 1901.
51. JOHN HYDE, 1902, in the absence of CARROLL D. WRIGHT.*
52. H. T. NEWCOMB, 1902.
53. SIMEON E. BALDWIN, 1903.
54. MARTIN A. KNAPP, 1904.
55. IRVING FISHER, 1905.
56. CHAS. A. CONANT, 1906.
57. CHAS. A. CONANT, 1906.
58. JOHN FRANKLIN CROWELL, 1907.
59. WILLIAM GRAHAM SUMNER,* 1908.
60. WILLIAM GRAHAM SUMNER,* 1908.
61. BYRON W. HOLT, 1909, in place of CARROLL D. WRIGHT, * deceased.
62. THEODORE E. BURTON, 1910.
63. J. PEASE NORTON, 1911.
64. JOHN HAYS HAMMOND, 1912.
65. JUDSON G. WALL, 1913.
66. E. E. RITTENHOUSE, 1914.
67. GEORGE F. KUNZ, 1915.
68. GEORGE F. KUNZ, 1915.

Section K.—Physiology and Experimental Medicine.

51. W. H. WELCH, 1902.
52. W. H. WELCH, 1902.
53. H. P. BOWDITCH, 1903.
54. H. P. BOWDITCH, 1904.
55. ALEXANDER C. ABBOTT, 1905, in the absence of W. T. SEDGWICK.
56. SIMON FLEXNER, 1906.
57. SIMON FLEXNER, 1906.
58. LUDVIG HEKTOEN, 1907.
59. WILLIAM H. HOWELL, 1908.
60. WILLIAM H. HOWELL, 1908.
61. CHARLES S. MINOT,* 1909.
62. FREDERICK G. NOVY, 1910.

VICE-PRESIDENTS OF SECTIONS, CONTINUED.

63. WILLIAM T. PORTER, 1911.
64. J. J. R. MACLEOD, 1912.
65. THEODORE HOUGH, 1913.
66. RICHARD M. PEARCE, 1914.
67. FREDERICK P. GAY, 1915.
68. FREDERICK P. GAY, 1915.

Section L.—Education.

58. ELMER ELLSWORTH BROWN, 1907.
59. JOHN DEWEY, 1908.
60. JOHN DEWEY, 1908.
61. JAMES E. RUSSELL, 1909.
62. A. ROSS HILL, 1910.
63. E. L. THORNDIKE, 1911.
64. J. MCKEEN CATTELL, 1912.
65. P. P. CLAXTON, 1913.
66. PAUL H. HANUS, 1914.
67. E. P. CUBBERLEY, 1915.
68. E. P. CUBBERLEY, 1915.

Section M.—Agriculture.

66. L. H. BAILEY, 1914.
67. EUGENE DAVENPORT, 1915.
68. EUGENE DAVENPORT, 1915.

SECRETARIES.

General Secretaries, 1848–

1. WALTER R. JOHNSON,* 1848.
2. E. N. HORSFORD,* 1849, in the absence of JEFFRIES WYMAN.*
3. L. R. GIBBS,* 1850, in the absence of E. C. HERRICK.*
4. E. C. HERRICK,* 1850.
5. WM. B. ROGERS,* 1851, in the absence of E. C. HERRICK.*
6. WM. B. ROGERS,* 1851.
7. S. ST. JOHN,* 1853, in the absence of J. D. DANA.*
8. J. LAWRENCE SMITH,* 1854.
9. WOLCOTT GIBBS,* 1855.
10. B. A. GOULD,* 1856.
11. JOHN L. LECONTE,* 1857.
12. W. M. GILLESPIE,* 1858, in the absence of WM. CHAUVENET.*
13. WM. CHAUVENET,* 1859.
14. JOSEPH LECONTE,* 1860.
15. ELIAS LOOMIS,* 1866, in the absence of W. P. TROWBRIDGE.*
16. C. S. LYMAN,* 1867.
17. SIMON NEWCOMB,* 1868, in the absence of A. P. ROCKWELL.*
18. O. C. MARSH,* 1869.
19. F. W. PUTNAM, 1870, in the absence of C. F. HARTT.*
20. F. W. PUTNAM, 1871.
21. EDWARD S. MORSE, 1872.
22. C. A. WHITE,* 1873.
23. A. C. HAMLIN, 1874.
24. S. H. SCUDDER,* 1875.
25. T. C. MENDENHALL, 1876.
26. AUG. R. GROTE,* 1877.
27. H. C. BOLTON,* 1878.
28. H. C. BOLTON,* 1879, in the absence of GEORGE LITTLE.
29. J. K. REES,* 1880.
30. C. V. RILEY,* 1881.
31. WILLIAM SAUNDERS,* 1882.
32. J. R. EASTMAN,* 1883.
33. ALFRED SPRINGER, 1884.
34. C. S. MINOT,* 1885.
35. S. G. WILLIAMS,* 1886.
36. WILLIAM H. PETTEE,* 1887.
37. JULIUS POHLMAN, 1888.
38. C. LEO MEES, 1889.
39. H. C. BOLTON,* 1890.
40. H. W, WILEY, 1891.
41. A. W. BUTLER, 1892.
42. T. H. NORTON, 1893.
43. H. L. FAIRCHILD, 1894.
44. JAS. LEWIS HOWE, 1895.
45. CHARLES R. BARNES,* 1896.
46. ASAPH HALL, JR., 1897.
47. J. MCMAHON, 1898, in place of D. S. KELLICOTT,* deceased.
48. FREDERICK BEDELL, 1899.

SECRETARIES, CONTINUED.

49. CHAS. BASKERVILLE, 1900.
50. JOHN M. COULTER, 1901, in the absence of WILLIAM HALLOCK.*
51. D. T. MACDOUGAL, 1902.
52. HENRY B. WARD, 1902.
53. CH. WARDELL STILES, 1903.
54. CHARLES S. HOWE, 1904.
55. C. A. WALDO, 1905.
56. JOHN F. HAYFORD, 1906.
57. JOHN F. HAYFORD, 1906.
58. F. W. MCNAIR, 1907.
59. J. PAUL GOODE, 1908.
60. J. PAUL GOODE, 1908.
61. DAYTON C. MILLER, 1909.
62. F. E. CLEMENTS, 1910.
63. JOHN ZELENY, 1911.
64. HENRY E. SUMMERS, 1912.
65. H. W. SPRINGSTEEN, 1913.
66. WM. A. WORSHAM, JR., 1914.
67. HENRY SKINNER, 1915.
68. HENRY SKINNER, 1915.

Permanent Secretaries, 1851–

5–7. SPENCER F. BAIRD,* 1851–4.
8–17. JOSEPH LOVERING,* 1854–68.
18. F. W. PUTNAM, 1869, in the absence of J. LOVERING.*
19–21. JOSEPH LOVERING,* 1870–73.
22–46. F. W. PUTNAM, 1873–98.
47–73. L. O. HOWARD, 1898–1920.

Assistant General Secretaries, 1882–1887.

31. J. R. EASTMAN,* 1882.
32. ALFRED SPRINGER, 1883.
33. C. S. MINOT,* 1884, in the absence of E. S. HOLDEN.*
34. S. G. WILLIAMS,* 1885, in the absence of C. C. ABBOTT.
35. W. H. PETTEE,* 1886.
36. J. C. ARTHUR, 1887.

Secretaries of the Council, 1888–

37. C. LEO MEES, 1888.
38. H. C. BOLTON,* 1889.
39. H. W. WILEY, 1890.
40. A. W. BUTLER, 1891.
41. T. H. NORTON, 1892.
42. H. LEROY FAIRCHILD, 1893.
43. JAS. LEWIS HOWE, 1894.
44. CHARLES R. BARNES,* 1895.
45. ASAPH HALL, JR., 1896.
46. D. S. KELLICOTT,* 1897.
47. FREDERICK BEDELL, 1898.
48. CHARLES BASKERVILLE, 1899.
49. WILLIAM HALLOCK,* 1900.
50. D. T. MACDOUGAL, 1901.
51. H. B. WARD, 1902.
52. CH. WARDELL STILES, 1902.
53. CHAS. S. HOWE, 1903.
54. C. A. WALDO, 1904.
55. JOHN F. HAYFORD, 1905.
56. F. W. MCNAIR, 1906.
57. F. W. MCNAIR, 1906.
58. J. PAUL GOODE, 1907, in place of WILLIAM HARPER DAVIS.
59. DAYTON C. MILLER, 1908.
60. DAYTON C. MILLER, 1908.
61. FRANCIS G. BENEDICT, 1909.
62. JOHN ZELENY, 1910.
63. HENRY E. SUMMERS, in absence of T. S. PALMER, 1911.
64. H. W. SPRINGSTEEN, 1912.
65. WM. A. WORSHAM, JR., 1913.
66. HENRY SKINNER, 1914.
67. WM. E. HENDERSON, 1915.
68. WM. E. HENDERSON, 1915.

Secretaries of Section A.—Mathematics, Physics and Chemistry, 1875–1881.

24. S. P. LANGLEY,* 1875.
T. C. MENDENHALL, 1875.

SECRETARIES, CONTINUED.

25. A. W. WRIGHT, 1876.
26. H. C. BOLTON,* 1877.
27. F. E. NIPHER, 1878.
28. J. K. REES,* 1879.
29. H. B. MASON, 1880.
30. E. T. TAPPAN, 1881, in the absence of JOHN TROWBRIDGE.

Secretaries of Section B.—Natural History, 1874–1881.

24. EDWARD S. MORSE, 1875.
25. ALBERT H. TUTTLE, 1876.
26. WILLIAM H. DALL, 1877.
27. GEORGE LITTLE, 1878.
28. WM. H. DALL, 1879, in the absence of A. C. WETHERBY.
29. CHARLES V. RILEY,* 1880.
30. WILLIAM SAUNDERS,* 1881.

SECRETARIES OF SUBSECTIONS, 1875–1881.

Subsection of Chemistry.

24. F. W. CLARKE, 1875.
25. H. C. BOLTON,* 1876.
26. P. SCHWEITZER,* 1877.
27. A. P. S. STUART,* 1878.
28. W. R. NICHOLS,* 1879.
29. C. E. MUNROE, 1880.
30. ALFRED SPRINGER, 1881, in the absence of R. B. WARDER.*

Subsection of Entomology.

30. B. PICKMAN MANN, 1881.

Subsection of Anthropology.

24. F. W. PUTNAM, 1875.
25. OTIS T. MASON,* 1876.
26–27. United with Section B.
28–30. J. G. HENDERSON, 1879–81.

Subsection of Microscopy.

25. E. W. MORLEY, 1876.
26. T. O. SOMMERS, JR., 1877.
27. G. J. ENGLEMANN,* 1878.
28–29. A. B. HERVEY, 1879–80.
30. W. H. SEAMAN,* 1881, in the absence of S. P. SHARPLES.

SECRETARIES OF THE SECTIONS, 1882—.

Section A.—Mathematics and Astronomy.

31. H. T. EDDY, 1882.
32. G. W. HOUGH,* 1883, in the absence of W. W. JOHNSON.
33. G. W. HOUGH,* 1884.
34. E. W. HYDE, 1885.
35. S. C. CHANDLER,* 1886.
36. H. M. PAUL, 1887.
37. C. L. DOOLITTLE, 1888.
38. G. C. COMSTOCK, 1889.
39. W. W. BEMAN, 1890.
40. F. H. BIGELOW, 1891.
41. WINSLOW UPTON, 1892.
42. C. A. WALDO, 1893, in the absence of A. W. PHILLIPS.
43. J. E. KERSHNER, 1894, in place of W. W. BEMAN, resigned.
44. ASAPH HALL, JR., 1895, in place of E. H. MOORE, resigned.
45. EDWIN B. FROST, 1896.
46. JAMES MCMAHON, 1897.
47. WINSLOW UPTON, 1898, in place of ALEX. ZIWET, resigned.
48. JOHN F. HAYFORD, 1899.
49. W. M. STRONG, 1900.
50. G. A. MILLER, 1901, in place of H. C. LORD, resigned.
51. E. S. CRAWLEY, 1902.
52. C. S. HOWE, 1902.

SECRETARIES OF THE SECTIONS, CONTINUED.

53–57. L. G. WELD, 1903–1906.
58–64. GEORGE A. MILLER, 1907–1912.
65–70. F. R. MOULTON, 1913–1917.

Section B.—Physics.

31. C. S. HASTINGS, 1882.
32. F. E. NIPHER, 1883, in the absence of C. K. WEAD.
33. N. D. C. HODGES, 1884.
34. B. F. THOMAS,* 1885, in place of A. A. MICHELSON, resigned.
35. H. S. CARHART, 1886.
36. C. LEO MEES, 1887.
37. ALEX. MACFARLANE,* 1888.
38. E. L. NICHOLS, 1889.
39. E. M. AVERY,* 1890.
40. ALEX. MACFARLANE,* 1891.
41. BROWN AYRES, 1892.
42. W. LECONTE STEVENS, 1893.
43. B. W. SNOW, 1894.
44. ERNEST MERRITT, 1895.
45. FRANK P. WHITMAN, 1896.
46. FREDERICK BEDELL, 1897.
47. W. S. FRANKLIN, 1898, in place of E. B. ROSA, resigned.
48. WILLIAM HALLOCK,* 1899.
49. R. A. FESSENDEN, 1900.
50. JOHN ZELENY, 1901, in place of J. O. REED, resigned.
51. E. F. NICHOLS, 1902.
52. D. C. MILLER, 1902.
53–57. D. C. MILLER, 1903–1906.
58–63. A. D. COLE, 1907–1911.
64–69. W. J. HUMPHREYS, 1912–1916.

Section C.—Chemistry.

31. ALFRED SPRINGER, 1882.
32. { J. W. LANGLEY, 1883.
{ W. MCMURTRIE,* 1883.
33. H. CARMICHAEL, 1884, in the absence of R. B. WARDER.*
34. F. P. DUNNINGTON, 1885.
35. W. MCMURTRIE,* 1886.
36. C. F. MABERY, 1887.
37. W. L. DUDLEY,* 1888.
38. EDWARD HART, 1889.
39. W. A. NOYES, 1890.
40. T. H. NORTON, 1891.
41. JAS. LEWIS HOWE, 1892.
42. H. N. STOKES, 1893, in the absence of J. U. NEF.
43. MORRIS LOEB,* 1894, in place of S. M. BABCOCK, resigned.
44. { W. P. MASON, 1895.
{ W. O. ATWATER,* 1895.
45. FRANK P. VENABLE, 1896.
46. P. C. FREER,* 1897.
47. C. BASKERVILLE, 1898.
48. H. A. WEBER,* 1899.
49. A. A. NOYES, 1900.
50. W. MCPHERSON, 1901.
51. F. C. PHILLIPS, 1902.
52. H. N. STOKES, 1902.
53–58. CHAS. L. PARSONS, 1903–07.
59–64. CHARLES H. HERTY, 1908–1912.
65–70. JOHN JOHNSTON, 1913–1917.

Section D.—Engineering.

31. J. BURKITT WEBB, 1882, in the absence of C. B. DUDLEY*.
32. J. BURKITT WEBB, 1883, *pro tempore.*
33. J. BURKITT WEBB, 1884.
34. C. J. H. WOODBURY, 1885.
35. WILLIAM KENT, 1886.
36. G. M. BOND, 1887.
37. ARTHUR BEARDSLEY, 1888.
38. W. R. WARNER, 1889.
39. THOMAS GRAY,* 1890.
40. WILLIAM KENT, 1891.
41. O. H. LANDRETH, 1892.
42. D. S. JACOBUS, 1893.
43. JOHN H. KINEALY, 1894.

SECRETARIES OF THE SECTIONS, CONTINUED.

44. H. S. JACOBY, 1895.
45. JOHN GALBRAITH, 1896.
46. JOHN J. FLATHER, 1897.
47. JOHN J. FLATHER, 1898, in the absence of W. S. ALDRICH.
48. J. M. PORTER, 1899.
49. W. T. MAGRUDER, 1900.
50. C. W. COMSTOCK, 1901, in the absence of W. H. JAQUES.
51. C. A. WALDO, 1902.
52. ELWOOD MEAD, 1902, in the absence of ALBERT KINGSBURY.
53–58. W. T. MAGRUDER, 1903–1907.
59–64. GEORGE W. BISSELL, 1908–1912.
65–70. A. H. BLANCHARD, 1913–1917.

Section E.—Geology and Geography.

31. H. S. WILLIAMS, 1882, in the absence of C. E. DUTTON.*
32. A. A. JULIEN, 1883.
33. E. A. SMITH, 1884.
34. G. K. GILBERT, 1885, in the absence of H. C. LEWIS.*
35. E. W. CLAYPOLE,* 1886.
36. W. M. DAVIS, 1887, in the absence of T. B. COMSTOCK.
37. JOHN C. BRANNER, 1888.
38. JOHN C. BRANNER, 1889.
39. SAMUEL CALVIN,* 1890.
40. W. J. MCGEE,* 1891.
41. R. D. SALISBURY, 1892.
42. W. H. HOBBS, 1893, in place of R. T. HILL, resigned.
43. JED. HOTCHKISS,* 1894, in place of W. M. DAVIS, resigned.
44. J. PERRIN SMITH, 1895.
45. W. N. RICE, 1896, in place of A. C. GILL, resigned.
46. C. H. SMYTH, JR., 1897.
47. WARREN UPHAM, 1898.
48. ARTHUR HOLLICK, 1899.
49. J. A. HOLMES, 1900.
50. H. B. PATTON, 1901, in the absence of R. A. F. PENROSE.
51. F. P. GULLIVER, 1902.
52. E. O. HOVEY, 1902.
53. E. O. HOVEY, 1903, in absence of G. B. SHATTUCK.
54–57. EDMUND O. HOVEY, 1904–1906.
58–61. F. P. GULLIVER, 1907–1909.
62. F. F. GROUT, in absence of F. P. GULLIVER, 1910.
63. F. P. GULLIVER, 1911.
64–69. GEORGE F. KAY, 1912–1916.

Section F.—Biology, 1882–92.

31. WILLIAM OSLER, 1882, in the absence of C. S. MINOT.*
32. S. A. FORBES, 1883.
33. C. E. BESSEY,* 1884.
34. J. A. LINTNER,* 1885, in place of C. H. FERNALD, resigned.
35. J. C. ARTHUR, 1886.
36. J. H. COMSTOCK, 1887.
37. B. E. FERNOW, 1888.
38. A. W. BUTLER, 1889.
39. J. M. COULTER, 1890.
40. A. J. COOK, 1891.
41. B. D. HALSTED, 1892.

Section F.—Zoology.

42. L. O. HOWARD, 1893.
43. JOHN B. SMITH,* 1894, in place of WM. LIBBEY, resigned.
44. C. W. HARGITT, 1895, in place of S. A. FORBES, resigned.
45. D. S. KELLICOTT,* 1896.
46. C. C. NUTTING, 1897.
47. R. T. JACKSON, 1898, in place of C. W. STILES, resigned.
48. C. L. MARLATT, 1899, in place of F. W. TRUE,* resigned.
49. C. H. EIGENMANN, 1900.
50. H. B. WARD, 1901.
51. CH. WARDELL STILES, 1902.

SECRETARIES OF THE SECTIONS, CONTINUED.

52. C. J. HERRICK, 1902.
53–58. C. J. HERRICK, 1903–07.
59–64. MAURICE A. BIGELOW, 1908–1912.
65–70. HERBERT V. NEAL, 1913–1917.

Section G.—Microscopy, 1882–85.

31. ROBERT BROWN, JR., 1882.
32. CARL SEILER, 1883.
33. ROMYN HITCHCOCK, 1884.
34. W. H. WALMSLEY, 1885.

Section G.—Botany.

42. B. T. GALLOWAY, 1893, in the absence of F. V. COVILLE.
43. CHAS. R. BARNES,* 1894.
44. B. T. GALLOWAY, 1895. M. B. WAITE, 1895.
45. GEORGE F. ATKINSON, 1896.
46. F. C. NEWCOMBE, 1897.
47. ERWIN F. SMITH, 1898.
48. W. A. KELLERMAN,* 1899.
49. D. T. MACDOUGAL, 1900.
50. ERNST A. BESSEY, 1901, in the absence of A. S. HITCHCOCK.
51. H. VON SCHRENK, 1902.
52. C. J. CHAMBERLAIN, 1902.
53–55. F. E. LLOYD, 1903–1905.
56. G. F. ATKINSON, 1906, in the absence of F. E. LLOYD.
57. TRACY E. HAZEN, 1906, in the absence of F E. LLOYD.
58. HENRY C. COWLES, 1907, in the absence of F. E. LLOYD.
59–61. HENRY C. COWLES, 1908–1909.
62. WM. CROCKER, in absence of H. C. COWLES, 1910.
63–64. HENRY C. COWLES, 1911–1912.
65–70. W. J. V. OSTERHOUT, 1913–1917.

Section H.—Anthropology and Psychology.

31. OTIS T. MASON,* 1882.
32. G. H. PERKINS, 1883.
33. G. H. PERKINS, 1884, in the absence of W. H. HOLMES.
34. ERMINNIE A. SMITH,* 1885.
35. A. W. BUTLER, 1886.
36. CHAS. C. ABBOTT, 1887, in the absence of F. W. LANGDON.
37. FRANK BAKER, 1888.
38. W. M. BEAUCHAMP, 1889.
39. JOSEPH JASTROW, 1890.
40. W. H. HOLMES, 1891.
41. W. M. BEAUCHAMP, 1892, in place of STEWART CULIN, resigned.
42. W. M. MOOREHEAD, 1893.
43. A. F. CHAMBERLAIN,* 1894.
44. STEWART CULIN and W. W. TOOKER, 1895, in place of ANITA N. MCGEE, res'd.
45. G. H. PERKINS, 1896, in place of J. G. BOURKE,* deceased.
46. ANITA N. MCGEE, 1897, in place of HARLAN I. SMITH, resigned.
47. MARSHALL H. SAVILLE, 1898.
48. E. W. SCRIPTURE, 1899, in place of GEO. A. DORSEY, resigned.
49. FRANK RUSSELL,* 1900.
50. G. G. MACCURDY, 1901.
51. HARLAN I. SMITH, 1902.
52. R. B. DIXON, 1902.
53–60. GEO. H. PEPPER, 1903–08.
61–64. GEO. G. MACCURDY, 1909–1912.
65. E. K. STRONG, JR., in absence of G. G. MACCURDY, 1913.
66. R. H. LOWIE, in absence of G. G. MACCURDY, 1914.
67–70. GEORGE G. MACCURDY, 1915–1917.

SECRETARIES OF THE SECTIONS, CONTINUED

Section I.—Social and Economic Science.

31. { FRANKLIN B. HOUGH,* 1882.
{ J. RICHARDS DODGE,* 1882.
32. JOSEPH CUMMINGS,* 1883.
33. CHARLES W. SMILEY, 1884.
34. CHAS. W. SMILEY, 1885, in the absence of J. W. CHICKERING.*
35. H. E. ALVORD,* 1886.
36. W. R. LAZENBY, 1887.
37. CHARLES S. HILL, 1888.
38. J. RICHARDS DODGE,* 1889.
39. B. E. FERNOW, 1890.
40. B. E. FERNOW, 1891.
41. HENRY FARQUHAR, 1892, in place of L. F. WARD,* made Vice-President.
42. NELLIE S. KEDZIE, 1893.
43. MANLEY MILES,* 1894.
44. W. R. LAZENBY, 1895, in place of E. A. ROSS, resigned.
45. R. T. COLBURN,* 1896.
46. ARCHIBALD BLUE,* 1897.
47. MARCUS BENJAMIN, 1898.
48. CALVIN M. WOODWARD,* 1899.
49. H. T. NEWCOMB, 1900.
50. R. A. PEARSON, 1901, in place of CORA A. BENNESON, resigned.
51. F. R. RUTTER, 1902, in place of WALTER F. WILLCOX, resigned.
52. F. H. HITCHCOCK, 1902.
53–57. J. F. CROWELL, 1903–1906.
58–60. J. PRASE NORTON, 1907–1908.
61. JNO. F. CROWELL, 1909, in place of J. P. NORTON, resigned.
62. FRED. C. CROXTON, 1910.
63–68. SEYMOUR C. LOOMIS, 1911–1915.

Section K.—Physiology and Experimental Medicine.

51. F. S. LEE, 1902.
52. F. S. LEE, 1903.
53. F. S. LEE, 1904.
54–60. W. J. GIES, 1904–1908.
61–63. GEORGE T. KEMP, 1909–1911.
64. J. J. R. MACLEOD, 1912, in place of WALDEMAR KOCH, deceased.
65. DONALD R. HOOKER, 1913.
66–69. C. E. A. WINSLOW, in place of D. R. HOOKER, resigned, 1914–1916.

Section L.—Education.

58. E. L. THORNDIKE, 1907, pro tem.
59–64. C. RIBORG MANN, 1908–1912.
65–70. S. A. COURTIS, 1913–1917.

Section M.—Agriculture.

66–71. EDWIN W. ALLEN, 1914–1918.

TREASURERS.

1. JEFFRIES WYMAN,* 1848.
2. A. L. ELWYN,* 1849.
3. ST. J. RAVENEL,* 1850, in the absence of A. L. ELWYN.*
4. A. L. ELWYN,* 1850.
5 SPENCER F. BAIRD,* 1851, in the absence of A. L. ELWYN.*
6–7. A. L. ELWYN,* 1851–53.
8. J. L. LECONTE,* 1854, in the absence of A. L. ELWYN,*
9–19. A. L. ELWYN,* 1855–1870.
20–30. WM. S. VAUX,* 1871–1881.
32–42. WM. LILLY,* 1882–1893.
43–49. R. S. WOODWARD, 1894–1900.
50–54. R. S. WOODWARD, 1901–1905.
55–61. R. S. WOODWARD, 1906–1909.
62–68. R. S. WOODWARD, 1910–1915.

Commonwealth of Massachusetts.

In the Year One Thousand Eight Hundred and Seventy-Four.

AN ACT

TO INCORPORATE THE "AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE."

Be it enacted by the Senate and House of Representatives, in General Court assembled, and by the authority of the same, as follows:

SECTION 1. Joseph Henry of Washington, Benjamin Pierce of Cambridge, James D. Dana of New Haven, James Hall of Albany, Alexis Caswell of Providence, Stephen Alexander of Princeton, Isaac Lea of Philadelphia, F. A. P. Barnard of New York, John S. Newberry of Cleveland, B. A. Gould of Cambridge, T. Sterry Hunt of Boston, Asa Gray of Cambridge, J. Lawrence Smith of Louisville, Joseph Lovering of Cambridge, and John LeConte of Philadephia, their associates, the officers and members of the Association known as the "American Association for the Advancement of Science," and their successors, are hereby made a corporation by the name of the "American Association for the Advancement of Science," for the purpose of receiving, purchasing, holding, and conveying real and personal property, which it now is, or hereafter may be, possessed of, with all the powers and privileges, and subject to the restrictions, duties and liabilities set forth in the general laws which now or hereafter may be in force and applicable to such corporations.

SECTION 2. Said corporation may have and hold by purchase, grant, gift, or otherwise, real estate not exceeding two hundred and fifty thousand dollars in value, and personal estate in any amount.*

SECTION 3. Any two of the corporators above named are hereby authorized to call the first meeting of the said corporation in the month of August next ensuing, by notice thereof "by mail," to each member of the said Association.

SECTION 4. This act shall take effect upon its passage.

HOUSE OF REPRESENTATIVES, March 10, 1874.
Passed to be enacted,
JOHN E. SANFORD, *Speaker.*

IN SENATE, March 17, 1874.
Passed to be enacted,
GEO. B. LORING, *President.*

March 19, 1874.
Approved.
W. B. WASHBURN.

SECRETARY'S DEPARTMENT,
Boston, April 3, 1874.
A true copy, Attest:
DAVID PULSIFER,
Deputy Secretary of the Commonwealth.

**(In accordance with amendment by Special Act of Massachusetts Legislature, Chapter 238, approved March 30, 1915.)*

CONSTITUTION

OF THE

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

Incorporated by Act of the General Court of the Commonwealth of Massachusetts.

OBJECTS.

ARTICLE 1. The objects of the Association are, by periodical and migratory meetings, to promote intercourse between those who are cultivating science in different parts of America, to give a stronger and more general impulse and more systematic direction to scientific research, and to procure for the labors of scientific men increased facilities and a wider usefulness.

MEMBERSHIP.

ART. 2. The Association shall consist of members, fellows, patrons, corresponding members and honorary fellows.

MEMBERS.

ART. 3. Any person may become a member of the Association upon recommendation in writing by two members or fellows, and election by the Council. Any incorporated scientific society or institution, or any public or incorporated library, may be enrolled as a member of the Association by vote of the Council by payment of the initiation fee; such society, institution, or library may be represented by either the President, Curator, Director, or Librarian presenting proper credentials at any meeting of the Association for which the assessment has been paid.

ASSOCIATES.

Associates for any single meeting shall be admitted on the payment of three dollars, such associates to have all the privileges of the meeting, except reading papers and voting.

Members of scientific societies whose meetings are contemporaneous with, or immediately subsequent to, that of the Association, and which

are recognized by vote of the Council as "Affiliated Societies," may become associate members for that meeting on the payment of three dollars. They shall be entitled to all the privileges of membership except voting or appointment to office, but their names shall not appear in the list of members printed in the report.

Foreign Associates.

Any member or fellow of any national scientific or educational institution, or of any society or academy of science, of any country not in America, who may be present at any meeting of the Association shall, on presenting the proper credentials, be enrolled without fee as a Foreign Associate, and shall be entited to all the privileges of the meeting except voting on matters of business.

Fellows.

Art. 4. Fellows shall be elected by the Council from such of the members as are professionally engaged in science, or have, by their labors, aided in advancing science. The election of fellows shall be by ballot and a majority vote of the members of the Council at a designated meeting of the Council.

Patrons.

Art. 5. Any person paying to the Association the sum of one thousand dollars shall be classed as a patron, and shall be entitled to all the privileges of a member and to all its publications.

Honorary Fellows and Corresponding Members.

Art. 6. Honorary fellows of the Association, not exceeding three for each Section, may be elected, the nominations to be made by the Council and approved by ballot in the respective sections before election by ballot in General Session. Honorary fellows shall be entitled to all the privileges of fellows, and shall be exempt from all fees and assessments, and entitled to all publications of the Association issued after the date of their election. Corresponding members shall consist of such scientists not residing in America as may be elected by the Council, and their number shall be limited to fifty.

SUSPENSIONS.

ART. 7. The name of any member or fellow two years in arrears for annual dues shall be erased from the list of the Association, provided, that two notices of indebtedness, at an interval of at least three months, shall have been given, and no such person shall be restored until he has paid his arrearages or has been re-elected. The Council shall have power to exclude from the Association any member or fellow, on satisfactory evidence that said member or fellow is an improper person to be connected with the Association, or has in the estimation of the Council made improper use of his membership or fellowship.

OFFICERS.

ART. 8. No member or fellow shall take part in the organization of, or hold office in, more than one section at any one meeting.

ART. 9. The officers of the Association shall be elected by ballot by the General Committee from the fellows, and shall consist of a President, a Vice-President from each section, a Permanent Secretary, a General Secretary, a Secretary of the Council, a Treasurer, and a Secretary of each Section; these, with the exception of the Permanent Secretary, the Treasurer, and the Secretaries of the Sections, shall be elected at each meeting for the following one, and, with the exception of the Treasurer and the Permanent Secretary, shall not be re-eligible for the next two meetings. The term of office of the Permanent Secretary, of the Treasurer, and of the Secretaries of the Sections, shall be five years.

PRESIDENT.

ART. 10. The President, or, in his absence, the senior Vice-President present, shall preside at all General Sessions of the Association and at all meetings of the Council. It shall also be the duty of the President to give an address at a General Session of the Association at the meeting following that over which he presided.

VICE-PRESIDENTS.

ART. 11. The Vice-Presidents shall be chairmen of their respective Sections, and of their Sectional Committees, and it shall be part of their duty to give an address, each before his own Section, at such time as the

Council shall determine, at the meeting subsequent to that at which he presides. The Vice-Presidents may appoint temporary chairmen to preside over the sessions of their Sections, but shall not delegate their other duties. The Vice-Presidents shall have seniority in order of their continuous membership in the Association.

General Secretary.

Art. 12. The General Secretary shall be the Secretary of all General Sessions of the Association, and shall keep a record of the business of these sessions. He shall receive the records from the Secretaries of the Sections, which, after examination, he shall transmit with his own records to the Permanent Secretary within two weeks after the adjournment of the meeting.

Secretary of the Council.

Art. 13. The Secretary of the Council shall keep the records of the Council. He shall give to the Secretary of each Section the titles of papers assigned to it by the Council. He shall receive proposals for membership and bring them before the Council.

Permanent Secretary.

Art. 14. The Permanent Secretary shall be the executive officer of the Association under the direction of the Council. He shall attend to all business not specially referred to committees nor otherwise constitutionally provided for. He shall keep an account of all business that he has transacted for the Association, and make annually a general report for publication. He shall attend to the printing ordered by the Association. He shall issue a circular of information to members and fellows at least three months before each meeting, and shall, in connection with the Local Committee, make all necessary arrangements for the meetings of the Association. He shall provide the Secretaries of the Association with such books and stationery as may be required for their records and business, and shall provide members and fellows with such blank forms as may be required for facilitating the business of the Association. He shall collect all assessments and admission fees,

and notify members and fellows of their election, and of any arrearages. He shall receive, and bring before the Council, the titles and abstracts of papers proposed to be read before the Association. He shall keep an account of all receipts and expenditures of the Association, and report the same annually at the first meeting of the Council, and shall pay over to the Treasurer such unexpended funds as the Council may direct. He shall receive and hold in trust for the Association all books, pamphlets, and manuscripts belonging to the Association, and allow the use of the same under the provisions of the Constitution and the orders of the Council. He shall receive all communications addressed to the Association during the intervals between meetings, and properly attend to the same. He shall at each meeting report the names of fellows and members who have died since the preceding meeting. He shall be allowed a salary which shall be determined by the Council, and may employ one or more clerks at such compensation as may be agreed upon by the Council.

Treasurer.

Art. 15. The Treasurer shall invest the funds received by him in such securities as may be directed by the Council. He shall annually present to the Council an account of the funds in his charge. No expenditure of the principal in the hands of the Treasurer shall be made without a unanimous vote of the Council, and no expenditure of the income received by the Treasurer shall be made without a two-thirds vote of the Council. The Treasurer shall give bonds for the faithful performance of his duty in such manner and sum as the Council shall from time to time direct.

Secretaries of the Sections.

Art. 16. The Secretaries of the Sections shall keep the records of their respective Sections, and, at the close of the meeting, give the same, including the records of subsections, to the General Secretary. They shall also be the Secretaries of the sectional committees. The Secretaries shall have seniority in order of their continuous membership in the Association.

Vacancies.

Art. 17. In case of a vacancy in the office of President, the senior Vice-President shall preside, as provided in Article 10, until the General Com-

mittee can be assembled and the vacancy filled by election. Vacancies in the offices of Vice-President, Permanent Secretary, Secretary of the Council, Secretaries of the Sections, and Treasurer, shall be filled by the Council by ballot.

COUNCIL.

ART. 18. The Council shall consist of the Past Presidents, and the Vice Presidents of the last two meetings, together with the President, the Vice-Presidents, the Permanent Secretary, the General Secretary, the Secretary of the Council, the Secretaries of the Sections, and the Treasurer of the current meeting, of one fellow elected from each Section by ballot on the first day of its meeting, of one fellow elected by each affiliated society, and one additional fellow from each affiliated society having more than twenty-five members who are fellows of the Association, and of nine fellows elected by the Council, three being annually elected for a term of three years. The members present at any regularly called meeting of the Council, provided there are at least five, shall form a quorum for the transaction of business. The Council shall meet on the day preceding each annual meeting of the Association, and arrange the program for the first day of the sessions. The time and place of this first meeting shall be designated by the Permanent Secretary. Unless otherwise agreed upon, regular meetings of the Council shall be held in the Council room at 9 o'clock A. M., on each day of the meeting of the Association. Special meetings of the Council may be called at any time by the President. The Council shall be the board of supervision of the Association, and no business shall be transacted by the Association that has not first been referred to, or originated with, the Council. The Council shall decide which papers, discussions, and other proceedings shall be published, and have the general direction of the publications of the Association; manage the financial affairs of the Association; arrange the business and programs for General Sessions; suggest subjects for discussion, investigation or reports; elect members and fellows; and receive and act upon all invitations extended to the Association and report the same at a General Session of the Association. The Council shall receive all reports of Special Committees and decide upon them, and only such shall be read in General Session as the Council shall direct. The Council shall appoint at each meeting the following subcommittees who shall act, subject to appeal to the whole Council,

until their successors are appointed at the following meeting: 1, on Papers and Reports; 2, on Members; 3, on Fellows.

General Committee.

Art. 19. The General Committee shall consist of the Council and one member or fellow elected by each of the Sections, who shall serve until their successors are elected. It shall be the duty of the committee to meet at the call of the President and elect the general officers for the following meeting of the Association. It shall also be the duty of this committee to fix the time and place for the next meeting. The Vice-President and Secretary of each Section shall be recommended to the General Committee by the Sectional Committee.

Meetings.

Art. 20. The Association shall hold a public meeting annually for one week or longer, at such time and place as may be determined by vote of the General Committee, and the preliminary arrangements for each meeting shall be made by the Local Committee, in conjunction with the Permanent Secretary and such other persons as the Council may designate.

But, if suitable preliminary arrangements cannot be made, the Council may afterwards change the time and place appointed by the General Committee, if such change is believed advisable by two-thirds of the members present.

Art. 21. A General Session shall be held at 10 o'clock A. M., on the first day of the meeting, and at such other times as the Council may direct.

Sections and Subsections.

Art. 22. The Association shall be divided into Sections, namely:—A, *Mathematics and Astronomy;* B, *Physics;* C, *Chemistry, including its application to Agriculture and the Arts;* D, *Engineering;* E, *Geology and Geography;* F, *Zoology;* G, *Botany;* H, *Anthropology and Psychology;* I, *Social and Economic Science;* K, *Physiology and Experimental Medicine;* L, *Education;* M, *Agriculture.* The Council shall have power to create additional Sections from time to time and to discontinue, combine or re-arrange existing Sections. The Council shall have power to consolidate any two or more Sections temporarily, and such consolidated Sections shall be presided over by the senior Vice-President and Secretary of the Sections comprising it.

SECTIONAL COMMITTEES.

ART. 23. Immediately on the organization of a Section there shall be a member or fellow elected by ballot after open nomination, who, with the Vice-President and Secretary and the preceding Vice-President and Secretary and the Presidents and Secretaries of those affiliated societies which shall be designated by the Council and the members or fellows elected by ballot at the four preceding meetings, shall form its Sectional Committee. The Sectional Committees shall have power to fill vacancies in their own numbers. Meetings of the Sections shall not be held at the same time with a General Session. The Sectional Committee may invite distinguished foreign associates present at any meeting to serve as honorary members of said Committee.

ART. 24. The Sectional Committee of any Section may at its pleasure form one or more temporary Subsections, and may designate the officers thereof. The Secretary of a Subsection shall, at the close of the meeting, transmit his records to the Secretary of the Section.

ART. 25. No paper shall be read in any Section or Subsection until it has been placed on the program of the day by the Sectional Committee.

ART. 26. The Sectional Committees shall arrange and direct the business of their respective Sections. They shall prepare the daily programs and give them to the Permanent Secretary for printing at the earliest moment practicable. No titles of papers shall be entered on the daily programs except such as have passed the Committee. No change shall be made in the program for the day in a Section without the consent of the Sectional Committee. The Sectional Committee may refuse to place the title of any paper on the program; but every such title, with the abstract of the paper or the paper itself, must be referred to the Council with the reasons why it was refused. The Sectional Committees shall also make nominations to the General Committee for Vice-President and Secretary of their respective Sections as provided for in Article 19.

ART. 27. The Sectional Committees shall examine all papers and abstracts referred to the Sections, and they shall not place on the program any paper inconsistent with the character of the Association; and to this end they have power to call for any paper, the character of which may not be sufficiently understood from the abstract submitted.

PAPERS AND COMMUNICATIONS.

ART. 28. All members and fellows must forward to the Secretary of the proper Section or to the Permanent Secretary, as early as possible, and, when practicable, before the convening of the Association, full titles of all the papers which they propose to present during the meeting, with a statement of the time that each will occupy in delivery, and also such abstracts of their contents as will give a general idea of their nature; and no title shall be considered by a Sectional Committee until an abstract of the paper or the paper itself has been received.

ART. 29. If the author of any paper be not ready when called upon, in the regular order of the official program, the title may be dropped to the bottom of the list.

ART. 30. Whenever practicable, the proceedings and discussions at General Sessions, Sections and Subsections, shall be reported by professional reporters, but such reports shall not appear in print as the official reports of the Association unless revised by the Secretaries.

PRINTED PROCEEDINGS.

ART. 31. The Permanent Secretary shall publish from time to time a list of officers and members of the Association together with such other matter as the Council may direct. Immediately on publication of the volume, a copy shall be forwarded to every member and fellow of the Association who shall have paid the assessment for the meeting to which it relates, and it shall also be offered for sale by the Permanent Secretary at such price as may be determined by the Council. The Council shall also designate the institutions to which copies shall be distributed.

LOCAL COMMITTEE.

ART. 32. The Local Committee shall consist of persons interested in the objects of the Association and residing at or near the place of the proposed meeting. It is expected that the Local Committee, assisted by the officers of the Association, will make all essential arrangements for the meeting, and issue a circular, giving necessary particulars, at least one month before the meeting.

LIBRARY OF THE ASSOCIATION.

ART. 33. All books and pamphlets received by the Association shall be in charge of the Permanent Secretary, who shall have a list of the same printed and shall furnish a copy to any member or fellow on application. Members and fellows who have paid their assessments in full shall be allowed to call for books and pamphlets, which shall be delivered to them at their expense on their giving a receipt agreeing to make good any loss or damage, and to return the same free of expense to the Permanent Secretary at the time specified in the receipt given. All books and pamphlets in circulation must be returned at each meeting. Not more than five books, including volumes, parts of volumes, and pamphlets, shall be held at one time by any member or fellow. Any book may be withheld from circulation by order of the Council. [The Library of the Association was, by vote of the Council in 1895, placed on deposit in the Library of the University of Cincinnati, Ohio. Members can obtain the use of books by writing to the Librarian of the University Library, Cincinnati, Ohio.]

ADMISSION FEE AND ASSESSMENTS.

ART. 34. The admission fee for members shall be five dollars in addition to the annual dues.

ART. 35. The annual dues for members and fellows shall be three dollars.

ART. 36. Any member or fellow who shall pay the sum of fifty dollars to the Association, at any one time, shall become a Life Member, and as such shall be exempt from all further assessments, and shall be entitled to the Proceedings of the Association. All money thus received shall be invested as a permanent fund, the income of which, during the life of the member, shall form a part of the general fund of the Association; but, after his death, shall be used only to assist in original research, unless otherwise directed by unanimous vote of the Council. (New members becoming life members must pay the admission fee of five dollars.)

ART. 37. All fees and dues must be paid to the Permanent Secretary, who shall give proper receipts for the same.

ACCOUNTS.

ART. 38. The accounts of the Permanent Secretary and of the Treasurer shall be audited annually by Auditor appointed by the Council.

ALTERATIONS OF THE CONSTITUTION.

ART. 39. No part of this Constitution shall be amended or annulled, without the concurrence of three-fourths of the members and fellows present in General Session, after notice given at a General Session of a preceding meeting of the Association.

MEMBERS AND FELLOWS

OF THE

AMERICAN ASSOCIATION

FOR THE

ADVANCEMENT OF SCIENCE

PATRONS.

[Persons contributing one thousand dollars or more to the Association are classed as Patrons, and are entitled to the privileges of members and to the publications. The names of Patrons are to remain permanently on the list.]

THOMPSON, MRS. ELIZABETH, Stamford, Conn. (22). (Died July, 1899.)

LILLY, GEN. WILLIAM, Mauch Chunk, Pa. (28). (Died December 1, 1893.)

HERRMAN, MRS. ESTHER, New York, N. Y. (29). (Died July 4, 1911.)

McMILLIN, EMERSON, 40 Wall Street, New York, N. Y. (37).

MEMBERS AND FELLOWS.

The names designated by an asterisk (*) are those of Fellows. (See ARTICLE IV of the Constitution.) The number in parenthesis indicates the meeting at which the Member joined the Association; the date following is the year when made a Fellow; the black letters at end of line are those of the Sections to which the Member or Fellow belongs. When the name is given in small capitals, it designates that the Member or Fellow is also a Life Member. Any Member or Fellow may become a Life Member by the payment of fifty dollars. (New Members becoming Life Members must pay the admission fee of five dollars.) The income of the money derived from a life membership is used for the general purposes of the Association during the life of the Member; afterwards it is to be used to aid in original research. Life Members are exempt from the annual assessment, and are entitled to the publications. The names of Life Members are printed in small capitals in the regular list of Members and Fellows.

The Constitution requires that the names of all Members two years in arrears shall be omitted from the list, but their names will be restored on payment of arrearages. Members not in arrears are entitled to the publications of the Association, including the journal *Science*. ($1.00 foreign postage on *Science* extra.)

[NOTE.—The omission of an address in the following list indicates that letters mailed to that last printed were returned as uncalled for. Information as to the present address of the members so indicated is requested by the PERMANENT SECRETARY.]

Aaronsohn, Dr. Aaron, Jewish Agricultural Experiment Station, Haifa, Palestine, Turkey, Asia. (61). **G**

Abadie, Eugene Hilarian, Consulting Engineer, Third National Bank Building, St. Louis, Mo. (58). **D**

*Abbe, Cleveland, Ph. D., LL. D., U. S. Weather Bureau, Washington, D. C. (16). 1874. **A B**

*Abbe, Cleveland, Jr., Ph. D., U. S. Weather Bureau, Washington, D. C. (44). 1899. **E**

*Abbe, Robert, M. D., 13 West 50th St., New York, N. Y. (36). 1892. **K**

Abbey, Charles A., Cosmos Club, Washington, D. C. (62).

*Abbot, Charles Greeley, Smithsonian Institution, Washington, D. C. (49). 1902. **B**

ABBOT, E. STANLEY, M. D., First Assistant Physician, McLean Hospital, Waverly, Mass. (54). **K**

*Abbott, Alexander Crever, M. D., Sc. D., University of Pennsylvania, Philadelphia, Pa. (52). 1905. **K**

Abbott, Charles H., State College of Washington, Pullman, Wash. (66). **F**

Abbott, Edwin K., M. D., Monterey, Cal. (60). **K**

*Abbott, Edwina, Newcomb College, New Orleans, La. (61). 1915. **H**

Abbott, Frank L., Professor of Physical Sciences, State Normal School, Greeley, Colo. (50). **B E**

*Abbott, James Francis, Ph. D., Professor of Zoology, Washington University, St. Louis, Mo. (58). 1910. **F**

Abbott, Samuel A. B., Villa Lontana, via Cassia, Rome, Italy. (60).

Abbott, Theodore Sperry, C. E., Saltillo, Coahuila, Mexico. (52). **D**

*Abel, John Jacob, M. D., Sc. D., Professor of Pharmacology, Johns Hopkins University, Baltimore, Md. (51). 1902. **C K**

Abercrombie, Ronald Taylor, M. D., Homewood Apartments, Charles and 31st Sts., Baltimore, Md. (60). **K**

*Abrams, Duff Andrew, C. E., Lewis Institute, Chicago, Ill. (60). 1915. **D**

*Abrams, LeRoy, Associate Professor of Botany, Leland Stanford Junior University, Stanford University, Cal. (54). 1909. **G**

Abt, Joseph L., M. D., 1832 South Halsted St., Chicago, Ill. (58). **K**

*Acheson, Edward Goodrich, Sc. D., President, International Acheson Graphite Company, Niagara Falls, N. Y. (50). 1903. **C**

Achorn, Kendall Lincoln, 178 Huntington Ave., Boston, Mass. (60). **K**

Ackerman, Ernest R., C. E., 506 W. 8th St., Plainfield, N. J. (60). **D**

*Ackert, James Edward, Ph. D., Asst. Professor of Zoology, Kansas State Agricultural College, Manhattan, Kans. (63). 1915. **F**

Acland, F. A., Deputy Minister of Labor for Canada, Ottawa, Canada. (60). **I**

*Acree, Solomon Farley, Ph. D., Professor of Chemistry of Forest Products, University of Wisconsin, Madison, Wis. (58). 1910. **C**

Adair, Fred L., M.D., 820 Donaldson Building, Minneapolis, Minn. (61). **K**

Adam, George, M. D., 2937 Fillmore St., San Francisco, Cal. (60). **K**

*Adams, Charles Christopher, Ph. D., Assistant Professor of Forest Zoology, N. Y. State College of Forestry, Syracuse, N. Y. (50). 1903. **F**

Adams, Charles Frederick, Dean, College of Agriculture, University of Arkansas, Fayetteville, Ark. (54). **F**

*Adams, Comfort Avery, E. E., Professor of Electrical Engineering, Harvard University, Cambridge, Mass. (47). 1910. **B E**

*Adams, Cyrus Cornelius, 134 Claremont Ave., New York, N. Y. (54). 1906. **E**

*Adams, Edward Dean, LL. D., 71 Broadway, New York, N. Y. (49). 1913. **I**

*Adams, Edwin Plimpton, Ph. D., Professor of Physics, Princeton University, Princeton, N. J. (58). 1910. **A B C**

Adams, Ephraim Douglass, Ph. D., Professor of History, Leland Stanford Junior University, Stanford University, Cal. (65).

*Adams, Frank Dawson, Sc. D., Ph. D., Dean, Faculty of Applied Science, McGill University, Montreal, Canada. (60). 1910. **E**

Adams, Franklin, The Marlborough, Washington, D. C. (63).

Adams, Frederick Carhart, 28 Winnemay St., Natick, Mass. (50). **B C L**

Adams, George E., 108 So. LaSalle St., Chicago, Ill. (58).

Adams, George E., Professor of Agronomy, R. I. State College, Kingston, R. I. (66). **M**

Adams, Harry Clifton, Rittenhouse Club, 1811 Walnut St., Philadelphia, Pa. (65).

Adams, James Fowler, Pennsylvania State College, State College, Pa. (65). **G**

Adams, John, Central Experiment Farm, Ottawa, Canada. (65). **G**

Adams, Leverett A., Department of Zoology, Columbia University, New York, N. Y. (66). **F**

Adams, Matthew Prior, Dept. of Physics and Chemistry, State Normal School, P. O. Box 555, New Britain, Conn. (54). **B C**

*Adams, Maxwell, Ph. D., Professor of Chemistry, University of Nevada, Reno, Nevada. (57). 1909. **C**

*Adamson, George P., 233 Reeder St., Easton, Pa. (62). 1915. **C**

Addicks, John Edward, 3d, care E. I. du Pont de Nemours Powder Co., P. O. Box 1154, Atlanta, Ga. (60). **C E**

*Addison, William Henry Fitzgerald, Assistant Professor of Normal Histology and Embryology, University of Pennsylvania, Philadelphia, Pa. (60). 1913. **K**

Aderhold, Thomas Maze, M. D., El Reno, Okla. (58). **K**

Adger, Miss Willian, 2000 De Lancey St., Philadelphia, Pa. (65).

Adkinson, Miss June, 10 Fairview St., Dorchester, Mass. (66). **F G**

*Adler, Cyrus, Ph. D., 2041 North Broad St., Philadelphia, Pa. (54). 1906. **H**

*Adler, Herman Morris, M. D., Chief of Staff, Psychopathic Hospital, Boston, Mass. (60). 1915. **C K**

*Adler, Isaac, M. D., 401 West End Ave., New York, N. Y. (49) 1903. **F K**

*Adler, Leon N., Ph. D., 100 William St., New York, N. Y. (56). 1909. **C**

Adler, Samuel, Alabama Polytechnic Institute, Auburn, Ala. (64). **G**

*Adriance, John Sabin, Ph. D., Williamstown, Mass. (39). 1895. **C**

Adsit, Charles George, E. E., Tallulah Falls, Ga. (60). **D**

*Agnew, Paul Gough, Bureau of Standards, Washington, D. C. (54). 1910. **B**

Agrelius, Frank U. G., Dept. of Biology, Kansas State Normal School, Emporia, Kans. (60). **F G**

*Aguilera, José G., Director, Geological Institute of Mexico, 6*a* Del Cipres No. 176, Mexico, D. F., Mexico. (53). 1905. **E**

*Ahern, Michael J., S. J., Canisius College, Buffalo, N. Y. (57). 1915. **E**

Aicher, L. C., Superintendent, Agricultural Experiment Sub-station, Aberdeen, Idaho. (66). **M**

*Aikins, Herbert Austin, M. D., Ph. D., LL. D., Professor of Philosophy, Western Reserve University, Cleveland, Ohio. (58). 1910. **H K L**

Ailes, Milton Everett, Vice-Pres., Riggs National Bank, Washington, D. C. (52). **I**

*Ainslie, Charles Nicolas, Elk Point, S. D. (60). 1914. **F**

*Ainslie, Prof. George Gooding, U. S. Entomological Laboratory, Nashville, Tenn. (58). 1914. **F**

*Aitken, Robert Grant, Sc. D., Lick Observatory, Mt. Hamilton, Cal. (53). 1906. **A**

Akeley, Lewis E., Dean, College of Engineering, University of South Dakota, Vermilion, S. D. (51). **B C**

Akerley, Arthur W., M. D., National Soldiers Home Hospital, Danville, Ill. (58). **K**

Akers, Oscar Perry, Ph. D., Professor of Mathematics, Allegheny College, Meadville, Pa. (60). **A**

*Albert, Henry, M. D., Professor of Pathology and Bacteriology, State University of Iowa College of Medicine, Iowa City, Iowa. (57). 1910. **K**

Albrecht, Emil Poole, Secretary of the Bourse, 1523 North 17th St., Philadelphia, Pa. (51). **A D**

Albrecht, George Moritz, Assistant Examiner, U. S. Patent Office, Washington, D. C. (64).

*Albrecht, Sebastian, Ph. D., Dudley Observatory, Albany, N. Y. (52). 1906. **A**

Albree, Chester B., M. E., 1201 Metropolitan St., N. S., Pittsburgh, Pa. (50). **D**

Alcott, Rev. William P., Boxford, Mass. (60).

Alden, Miss Isabel, 24 Waldron Ave., Summit, N. J. (60). **G**

*Alden, John, Chemist, Pacific Mills, Lawrence. Mass. (36). 1898. **C**

Alderman, William H., 184 1st St., Morgantown, W. Va. (62). **G**

Alderson, Harry Everett, M. D., Clinical Associate Professor of Medicine, Leland Stanford Junior University, Stanford University, Cal. (66). **K**

*Alderson, Victor Clifton, Sc. D., 1043 Emerson St., Denver, Colo. (50). 1903. **A D**

Aldrich, Fred Davis, Worcester Academy, Worcester, Mass. (60). **A**

*Aldrich, Loyal Blaine, Smithsonian Institution, Washington, D. C. (61). 1915. **A B**

Aldrich, Mrs. Richard, 317 West 74th St., New York, N. Y. (65).

*Alexander, Prof. Carter, Peabody College for Teachers, Nashville, Tenn. (63). 1915. **L**

*Alexander, Daniel Basil William, 3814 Santa Fe Ave., Los Angeles, Cal. (57). 1915. **C**

Alexander, Harry, E. E., M. E., 18–20 West 34th St., New York, N. Y. (50). **D**

Alexander, Hugh S., Macalester College, St. Paul, Minn. (60).

Alexander, Kay, C. E., Ravelstoke, B. C., Canada. (58). **D**

Alexander, Robert Lee, C. E., Naramata, B. C., Canada. (60). **D**

Alexander, William H., U. S. Weather Bureau, Cleveland, Ohio. (64).

*Aley, Robert Judson, Ph. D., LL. D., President, University of Maine, Orono, Me. (49). 1906. **A**

Alfred, C. Morton, M. D., 640 N. Columbus St., Lancaster, Ohio. (60). **K**

Allabach, Miss Lulu Florence, The Berkshire, Pittsburgh, Pa. (52). **F G**

*Allan, John A., Ph. D., University of Alberta, Edmonton, Canada. (60). 1915. **E**

Allan, Thomas J., 1145 Regent St., Alameda, Cal. (65).

Allee, Warder Clyde, Ph. D., Assistant Professor of Zoology, University of Oklahoma, Norman, Okla. (63). **G**

*Alleman, Gellert, Ph. D., Professor of Chemistry, Swarthmore College, Swarthmore, Pa. (50). 1909. **C**

*Allen, Bennet Mills, Ph. D., Head, Department of Zoology, University of Kansas, Lawrence, Kans. (54). 1906. **F K**

*Allen, Charles Elmer, Ph. D., Professor of Botany, University of Wisconsin, Madison, Wis. (55). 1908. **G**

Allen, Charles Metcalf, Professor of Experimental Engineering, Worcester Polytechnic Institute, Worcester, Mass. (52). **D**

*Allen, Edwin West, Ph. D., Editor, *Experiment Station Record*, U. S. Department of Agriculture, Washington, D. C. (52). 1909. **C M**

Allen, Miss Eleanor W., 12 Commonwealth Ave., Boston, Mass. (60).

Allen, Ezra, Professor of Biology, School of Pedagogy, Philadelphia, Pa. (64). **F**

*Allen, Frank, Ph. D., Professor of Physics, University of Manitoba, Winnipeg, Manitoba, Canada. (49). 1903. **B**

Allen, Prof. George Delwin, 1116 15th Ave., S. E., Minneapolis, Minn. (62). **F**

Allen, Mrs. George W., The Cottage, Cazenovia, N. Y. (65).

*Allen, Glover Morrill, Ph. D., 234 Berkeley St., Boston, Mass. (58). 1913. **F**

Allen, Harrison S., 120 Clowes Terrace, Waterbury, Conn. (60). **C**

Allen, Harry E., Assistant Professor of Animal Husbandry, Purdue University, La Fayette, Ind. (64). **F**

Allen, James Lane, LL. D., 166 West 78th St., New York, N. Y. (57). **I**

*Allen, Joel Asaph, Ph. D., American Museum of Natural History, New York, N. Y. (60). 1911. **F H**

*Allen, Prof. Joseph, 9 Myrtle St., White Plains, N. Y. (58). 1909. **A**

Allen, Mrs. Martha M., Forest Hills Gardens, Flushing, L. I., N. Y. (62).

*Allen, Reginald Bryant, Ph. D., Professor of Mathematics, Kenyon College, Gambier, Ohio. (58). 1909. **A**

Allen, Ruth Florence, Ph. D., 27 Church St., Wellesley, Mass. (65). **G**

*Allen, Walter S., care General Chemical Co., Laurel Hill, L. I., N. Y. (58). 1915. **C**

Allen, William Frederick, C. E., 180 Scotland Road, South Orange, N. J. (55). **A D**

Allen, Wynfred E., care High School, Stockton, Cal. (65).

Aller, Henry Day, U. S. Bureau of Fisheries, Washington, D. C. (57). **F**

Alling, Harold Lattimore, 400 Oxford St., Rochester, N. Y. (63). **B**

*Allis, Edward Phelps, Jr., LL. D., Palais de Carnolès, Mentone, South France. (52). 1905. **F**

*Allison, Charles Edward, M. D., Elysburg, Pa. (51). 1906. **K**

Allorge, Maurice Marcel, Lecturer in Geomorphology, Merton College, Oxford, England. (60). **E**

*Almy, Frank Fayette, Ph. D., Professor of Physics, Grinnell College, Grinnell, Iowa. (57). 1909. **B**

*Almy, John Edwin, Ph. D., Professor of Physics, University of Nebraska, Lincoln, Nebr. (50). 1901. **B**

Alpers, Martin Edward, Jr., 94 Randolph Ave., Dover, N. J. (57). **K**

*Alpers, William Charles, Sc. D., Dean, Cleveland School of Pharmacy, Cleveland, Ohio. (50). 1911. **C I**

*Alsberg, Carl Lucas, M. D., Chief, Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (55). 1908. **C**

Alsop, E. B., 1502 20th St., N. W., Washington, D. C. (50). **D**

*Alspach, Edmund Franklin, North Yakima, Wash. (48). 1915. **H**

Altmaier, Carl Lewis, Professor of Secretarial Studies, Drexel Institute, Philadelphia, Pa. (66). **I**

Alves, Henry L., 855 Hampshire St., San Francisco, Cal. (65).

*Alvord, John Watson, C. E., 5203 Kenwood Ave., Chicago, Ill. (58). 1911. **D**

*Alway, Frederick James, Ph. D., University Farm, St. Paul, Minn. (60). 1911. **C**

*Alwood, William Bradford, "Stonehenge," Rio Road, Charlottesville, Va. (39). 1891. **C G**

*Amberg, Emil, M. D., 270 Woodward Ave., Detroit, Mich. (58). 1909. **H K**

Ames, Charles Wilberforce, 501 Grand Ave., St. Paul, Minn. (61). **L**

*Ames, Edward Scribner, Ph. D., Assistant Professor of Philosophy, University of Chicago, Chicago, Ill. (58). 1910. **H**

*Ames, Oakes, Director, Botanic Garden of Harvard University, North Easton, Mass. (50). 1905. **G**

*Ami, Henry Marc, Sc. D., 453 Laurier Ave., East, Ottawa, Canada. (54). 1906. **E F G H**

Amstutz, Noah Steiner, E. E., Valparaiso, Ind. (60). **D**

Ancker, Walter, B. and O. Building, Baltimore, Md. (60).

*Anders, Howard S., M. D., 1700 Walnut St., Philadelphia, Pa. (51). 1911. **B K L**

Anderson, A. J. C., 90 Wall St., New York, N. Y. (49).

*Anderson, Alexander Pierce, Ph. D., 5552 Everett Ave., Chicago, Ill. (45). 1899. **G**

Anderson, Prof. Andrew W., 1658 Lincoln Ave., St. Paul, Minn. (62). **H L**

Anderson, Arvid Robert, 239 East 19th St., Columbus, Ohio. (65). **D**

Anderson, David Allen, Ph. D., Asst. Professor of Education, University of Washington, Seattle, Washington. (64). **L**

Anderson, David Guy, C. E., 4032 Walnut St., Philadelphia, Pa. (60). **D**

*Anderson, Douglas Smith, E. E., Professor of Electrical Engineering, Tulane University, New Orleans, La. (49). 1910. **B D**

*Anderson, Frank, E. M., 468 12th East St., Salt Lake City, Utah. (50). 1906. **D E**

*Anderson, Frank M., Cartagena Oil Refining Co., Cartagena, Colombia, S. A. (65). 1915. **E**

Anderson, Frank P., Epworth Seminary, Epworth, Iowa. (46).

Anderson, George Gray, C. E., 626 First National Bank Building, Denver, Colo. (60). **D**

*Anderson, Harry Warren, Professor of Botany, Wabash College, Crawfordsville, Ind. (63). 1913. **G**

Anderson, Jacob Peter, Alaska Agricultural Experiment Station, Sitka, Alaska. (66). **G M**

*Anderson, John F., M. D., U. S. Public Health Service, Washington, D. C. (58). 1908. **K**

Anderson, Leroy, Ph. D., Box 131, Route 9, Campbell, Cal. (63). **G**

Anderson, Malcolm Playfair, R. F. D. 1, Watsonville, Cal. (65).

Anderson, Robert B., M. D., 925 Sterling Place, Brooklyn, N. Y. (60). **K**

*Anderson, Robert Van Vleck, 7 Richmond Terrace, Whitehall, London, S. W., England. (57). 1911. **E F**

Anderson, Samuel Herbert, University of Washington, Seattle, Wash. (58). **B**

Anderson, William Jenkins Webb, M. D., Wesleyan Mission, Canton, China. (63). **K**

Anderson, Winslow, M. D., President, College of Physicians and Surgeons of San Francisco, 1065 Sutter St., San Francisco, Cal. (51). **K**

*Andrews, Clement Walker, LL. D., Librarian, The John Crerar Library, Chicago, Ill. (53). 1908. **C**

Andrews, Daniel Marshall, C. E., P. O. Box 763, Montgomery, Ala. (60). **D**

Andrews, Eliza Frances, 419 East 1st St., Rome, Ga. (65). **G**

*Andrews, Ethan Allen, Ph. D., Professor of Zoology, Johns Hopkins University, Baltimore, Md. (58). 1909. **F**

Andrews, Mrs. Ethan Allen, 821 St. Paul St., Baltimore, Md. (60). **F H**

*Andrews, Frank Marion, Ph. D., Associate Professor of Botany, Indiana University, Bloomington, Ind. (52). 1903. **G**

*Andrews, Launcelot Winchester, Ph. D., 917 18th St., N. W., Washington, D. C. (58). 1909. **C**

Andrews, Roy Chapman, American Museum of Natural History, New York, N. Y. (62).

Andrews, W. W., LL.D., Mt. Allison University, Sackville, N. B., Canada. (60). **C**

Andrews, William Edward, Principal, Township High School, Taylorville, Ill. (52). **D**

Andrews, William Symes, E. E., General Electric Company, Schenectady, N. Y. (50). **D E**

*Angela, Sister Helen, Ph. D., Professor of Botany, College of St. Elizabeth, Convent Station, N. J. (58). 1911. **E G**

Angell, M. F., Moscow, Idaho. (65).

Angell, William R., 801 West Adams St., Chicago, Ill. (58).

Angerstein, Thomas Chester, 1300 Harvester Building, Chicago, Ill. (63).

*Angier, Roswell Parker, Ph. D., Assistant Professor of Psychology, Yale University, New Haven, Conn. (57). 1911. **K**

*Angle, Edward H., M. D., 58 Bellevue Place, New London, Conn. (53). 1915. **F**

*Angle, Edward John, M. D., 514 No. 25th St., Lincoln, Nebr. (65). 1915. **F K**

Ansley, William Bailey, M. D., 34 Indiana Ave., Saltsburg, Pa. (60). **K**

Anthony, Charles, C. E., Gen. Mgr., Bahia Blanca Waterworks Co., Casilla de Correo 149, Bahia Blanca, Argentina, S. A. (60). **D**

*Anthony Gardner Chace, Sc. D., Professor of Technical Drawing and Dean, Engineering School, Tufts College, Tufts College, Mass. (56). 1912. **D E**

Anthony, Mrs. S. Reed, 125 Beacon St., Boston, Mass. (60).

Apfel, Philip F., Raeco, Wash. (58). **C**

App, John C., P. O. Box 464, Charleston, W. Va. (60). **C**

*Apple, A. Thomas G., Director, Daniel Scholl Observatory, Lancaster, Pa. (61). 1914. **A**

Apple, Joseph Henry, President, Hood College, Frederick, Md. (52). **I**

Appleman, Charles Orval, Ph. D., College Park, Md. (62).

*Appleton, John Howard, Sc. D., Emeritus Professor of Chemistry, Brown University, Providence, R. I. (50). 1901. **C**

*Appleton, L. Estelle, Ph. D., Department of Psychology and Education, Kindergarten Training School, Grand Rapids, Mich. (65). 1915. **H L**

Appleton, William Day, E. E., Apartado 23, Zamora, Michoacan, Mexico. (58). **D**

Archer, William J., Superior, Wis. (58). **C**

*Archibald, Ebenezer Henry, Ph. D., Associate Professor of Chemistry, Syracuse University, Syracuse, N. Y. (60). 1911. **C**

*Archibald, Raymond Clare, Ph. D., Assistant Professor of Mathematics, Brown University, Providence, R. I. (54). 1906. **A**

Arctowski, Henryk, Ph. D., New York Public Library, 476 5th Ave., New York, N. Y. (63).

*Arey, Melvin Franklin, Professor of Natural Sciences, Iowa Teachers College, Cedar Falls, Iowa. (63). 1914. **E**

*Argall, Philip, E. M., First National Bank Building, Denver, Colo. (54). 1906. **C E**

ARGOLLO, MIGUEL T., C. E., Hotel Bayerischerhof, Munich, Germany. (60). **D**

Arkin, Aaron, P. O. Box 324, Morgantown, W. Va. (65).

Arlitt, Ada Hart, 5652 Maryland Ave., Chicago, Ill. (64).

Armfield, Frank, Monroe, N. C. (55). **I**

Armitage, Thomas L., M. D., Princeton, Minn. (51). **K**

*Arms, Burdett Loomis, M. D., Professor of Preventive Medicine, University of Texas, Galveston, Texas. (60). 1911. **K**

*Armsby, Henry Prentiss, Ph. D., LL. D., Director, Institute of Animal Nutrition, Pennsylvania State College, State College, Pa. (52). 1903. **C M**

ARMSTRONG, LIEUT. DONALD, U. S. A., Coast Artillery Corps, Fort Williams, Me. (62).

Armstrong, E. J., M. E., 954 West 9th St., Erie, Pa. (58). **D**

ARMSTRONG, LIEUT. FRANCIS TUTTLE, U. S. A., Fort McKinley, Maine. (63).

Armstrong, Gordon Nelson, Delaware, Ohio. (66). **A**

Armstrong, John M., M. D., 1979 Goodrich Ave., St. Paul, Minn. (60). **K**

Armstrong, Lyndon K., E. M., Editor, *Northwest Mining News*, P. O. Drawer 2154, Spokane, Wash. (58). **D**

Armstrong, Miss Margaret, 58 West 10th St., New York, N. Y. (65).

ARMSTRONG, SAMUEL TREAT, M. D., Ph. D., Katonah, N. Y. (57). **K**

Arnold, Alma C., 2025 Broadway, New York, N. Y. (58). **K**

*Arnold, Bion Joseph, Sc. D., E. E., 105 South La Salle St., Chicago, Ill. (50). 1903. **D**

Arnold, Ernst Hermann, M. D., Director, New Haven Normal School of Gymnastics, New Haven, Conn. (52). **K**

*Arnold, Felix, Ph. D., 824 St. Nicholas Ave., New York, N. Y. (58). 1910. **H L**

*Arnold, Harold De Forrest, 463 West St., New York, N. Y. (57). 1915. **B**

*Arnold, Ralph, Ph. D., Union Oil Building, Los Angeles, Cal. (51). 1906. **E**

Arnold, Robert B., 614 W. Franklin St., Richmond, Va. (63).

*Arny, Henry Vinecombe, Ph. D., Professor of Chemistry, New York College of Pharmacy, 115 West 68th St., New York, N. Y. (60). 1911. **C**

*Arps, George Frederick, Ph. D., 216 East Lane Ave., Columbus, Ohio. (62). 1911. **H**

Arter, Frank Asbury, 605 Scofield Building, Cleveland, Ohio. (63).

*Arthur, Joseph Charles, Sc. D., Chief Botanist, Agricultural Experiment Station, La Fayette, Ind. (21). 1883. **G**

Arundel, John T., Savoy Hotel, Bournemouth, England. (65).

Ash, Dorsey, 2555 Buena Vista Way, Berkeley, Cal. (65).

Ashbrook, Donald Sinclair, 16 Willard St., Wilmington, Del. (51). **C**

*Ashley, George Hall, Ph. D., U. S. Geological Survey, Washington, D. C. (51). 1903. **E F**

Ashworth, D. Irving, P. O. Box 503, Wappingers Falls, N. Y. (58). **C**

Aspinwall, John, Newburgh, N. Y. (49).

Atherton, F. C., P. O. Box 148, Honolulu, Hawaii. (66).

Atkins, Martin D., 269 Forest Ave., River Forest, Ill. (48). **B**

Atkinson, Albert Algernon, E. E., Professor of Physics and Electrical Engineering, Ohio University, Athens, Ohio. (60). **B D**

Atkinson, Alfred, Professor of Agronomy, Montana State College of A. and M. Arts, Bozeman, Mont. (62). **G M**

Atkinson, Daniel Armstrong, M. D., 132 Oakwood Ave., West View, Pa. (56). **K**

*Atkinson, George Francis, Ph. D., Professor of Botany, Cornell University, Ithaca, N. Y. (39). 1892. **G**

Atsatt, Sarah R., 345 South Serrano Ave., Los Angeles, Cal. (65).

*Attix, James Conner, M. D., 2355 N. 13th St., Philadelphia, Pa. (60). 1911. **K**

Atwater, Christopher G., American Coal Products Co., 17 Battery Place, New York, N. Y. (66). **M**

*Atwell, Charles Beach, Professor of Botany, Northwestern University, Evanston, Ill. (36). 1890. **G**

*Atwood, Wallace Walter, Ph. D., Professor of Physiography, Harvard University, Cambridge, Mass. (58). 1910. **E L**

*Atwood, Winfred M., Oregon State Agricultural College, Corvallis, Oregon. (63). 1915. **G**

Aue, Joseph E., M. E., De la Vergne Machine Co., New York, N. Y. (58). **D**

Aull, William B., Jr., S. C. Agricultural Experiment Station, Clemson College, S. C. (64). **G**

*Ault, J. P., Department of Terrestrial Magnetism, Washington, D. C. (65). 1915. **A**

Aurness, Peter A., M. D., 1937 Park Ave., Minneapolis, Minn. (60). **K**

Austen, Mrs. Ellen Munroe, 882 Union St., Brooklyn. N. Y. (65).

Austin, Prof. Clift F., P. O. Box 7, Herradura, Cuba. (54). **G**

*Austin, F. E., Professor of Electrical Engineering, Dartmouth College, Hanover, N. H. (57). 1915. **D**

*AUSTIN, JAMES HAROLD, M. D., University of Pennsylvania, Philadelphia, Pa. (64). 1915. **K**

*Austin, Oscar Phelps, National City Bank, New York, N. Y. (51). 1907. **I**

*Avery, Samuel, Ph. D., LL. D., Director, Chemical Laboratories, and Chancellor, University of Nebraska, Lincoln, Nebr. (57). 1908. **C**

Axt, Miss Mary C., 196 Richmond Ave., Port Richmond, N. Y. (64). **F**

Ayer, Edward Everett, 1515 Railway Exchange Building, Chicago, Ill. (37). **H**

Aylmer, Arthur L., M. D., 329 Central Ave., Minneapolis, Minn. (60). **K**

*Ayres, Horace Beemer, Aitkin, Minn. (40). 1911. **E**

Ayres, Leonard Porter, Ph. D., 130 East 22d St., New York, N. Y. (63).

Ayrs, O. L., 1704 11th Ave., South, Birmingham, Ala. (66). **M**

*Babasinian, Vahan Simon, Ph. D., Associate Professor of Chemistry, Lehigh University, South Bethlehem, Pa. (57). 1910. **C**

*Babb, Maurice Jefferis, Ph. D., Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. (60). 1911. **A**

Babcock, A. H., Flood Building, San Francisco, Cal. (65).

Babcock, Mrs. Albert, 126 Waterman St., Providence, R. I. (65).

Babcock, Earle Brownell, Columbia University, New York, N. Y. (58).

*Babcock, Earle Jay, Professor of Chemistry, and Dean, College of Mining Engineering, University of North Dakota, Grand Forks, N. D. (58). 1910. **C D**

*Babcock, Ernest Browne, Professor of Plant Pathology, University of California, Berkeley, Cal. (57). 1911. **G**

*Babcock, Harold D., Physicist and Assistant Astronomer, Mt. Wilson Solar Observatory, Pasadena, Cal. (62). 1915. **A B**

Babcock, John Peare, Government Building, Victoria, B. C., Can. (66).

*Babcock, Stephen Moulton, Ph. D., LL. D., Professor of Agricultural Chemistry, University of Wisconsin, Madison, Wis. (33). 1885. **C**

Babcock, William Wayne, M. D., 2033 Walnut St., Philadelphia, Pa. (54). **K**

*Baber, Miss Zonia, Associate Professor of Geography, College of Education, University of Chicago, Chicago, Ill. (54). 1906. **E**

Bachmann, G., M. D., Atlanta Medical College, Atlanta, Ga. (64). **K**

*Back, Ernest Adna, Ph. D., Box 153, U. S. Department of Agriculture, Honolulu, Hawaii. (58). 1913. **F**

*Backus, Cyrus Day, E. E., U. S. Patent Office, Washington, D. C. (60). 1915. **D**

*Bacon, Arthur Avery, Professor of Physics, Hobart College, Geneva, N. Y. (53). 1911. **B**

Bacon, Charles Sumner, M. D., 2156 Sedgwick St., Chicago, Ill. (58). **K**

Bacon, Prof. George Preston, 59 Perham St., West Roxbury, Mass. (58). **B**

*Bacon, Raymond Foss, Ph. D., Director, Mellon Institute of Industrial Research, University of Pittsburgh, Pittsburgh, Pa. (64). 1915. **C**

Badé, William Frederic, Ph. D., 2616 College Ave., Berkeley, Cal. (65).

Baehr, George, M. D., 51 East 96th St., New York, N. Y. (64). **K**

*Baekeland, Leo Hendrick, Sc. D., "Snug Rock," Harmony Park, Yonkers, N. Y. (57). 1908. **C**

Baerecke, John F., M. D., Ph. D., Professor of Biology, Stetson University, De Land, Fla. (50). **F K**

*Bagg, Rufus Mather, Jr., Ph. D., Professor of Geology and Mineralogy, Lawrence College, Appleton, Wis. (49). 1903. **E**

BAGGALEY, RALPH, E. M., President, Puritan Coke Co., Pittsburgh, Pa. (50). **D**

Bagley, Charles, Jr., M. D., 5 West Chase St., Baltimore, Md. (63). **K**

*Bagley, William Chandler, Ph. D., Director, School of Education, University of Illinois, Urbana, Ill. (60). 1910. **L**

Bagot, C. G. Seymour, E. E., Quathiaski Cove, B. C., Canada. (60). **D**

*Bailey, Edgar Henry Summerfield, Ph. D., Professor of Chemistry, University of Kansas, Lawrence, Kans. (25). 1889. **C K**

Bailey, Edward P., Hinsdale, N. H. (52). **E**

Bailey, Ernest Winfield, Department of Horticulture, University of Illinois, Urbana, Ill. (62). **G L M**

*Bailey, Frank H., Rear-Admiral, U. S. N., Gowanda, N. Y. (52). 1912. **D**

*Bailey, Irving W., 80 Buckingham St., Cambridge, Mass. (63). 1915. **G**

*Bailey, Liberty Hyde, LL. D., 103 Sage Place, Ithaca, N. Y. (65). 1914. **M**

*Bailey, Solon Irving, Phillips Professor of Astronomy, Harvard University, Cambridge, Mass. (50). 1901. **A**

*Bailey, Vernon, U. S. Department of Agriculture, Washington, D. C. (52). 1904. **F**

*Bain, Samuel McCutcheon, Professor of Botany, University of Tennessee, Knoxville, Tenn. (50). 1902. **G**

*Bair, Joseph Hershey, Ph. D., 4318 Sansom St., Philadelphia, Pa. (52). 1905. **H K**

Baird, Arthur C., 505 Lincoln Ave., Pittsburgh, Pa. (60). **A**

*Baird, John Wallace, Ph. D., Professor of Psychology, Clark University, Worcester, Mass. (53). 1905. **H**

Baird, William C., M. D., 1320 No. Tejon St., Colorado Springs, Colo. (60). **K**

Baker, A. W., Ontario Agricultural College, Guelph, Canada. (65). **G**

*Baker, Arthur C., Bureau of Entomology, U. S. Department of Agriculture, Washington, D. C. (64). 1915. **F**

Baker, C. C., P. O. Box 621, Azusa, Cal. (65).

*Baker, Charles Fuller, Professor of Agronomy, College of Agriculture, Los Banos, P. I. (54). 1906. **F G**

*Baker, Charles Lawrence, University of Texas, Austin, Texas. (64). 1915. **E**

Baker, Clark E., Holliday's Cove, W. Va. (64).

Baker, Edward Hall, M. D., 1745 East 68th St., Grand Crossing Station, Chicago, Ill. (58). **K**

*Baker, Ezra F., Ph. D., President, Waynesburg College, Waynesburg, Pa. (57). 1915. **H**

*Baker, Frank, M. D., Ph. D., Superintendent, National Zoological Park, Washington, D. C. (31). 1886. **F G H I K L**

Baker, Frank Collins, Curator and Secretary, Chicago Academy of Sciences, Chicago, Ill. (58).

Baker, Fred., M. D., Point Loma, Cal. (65). **K**

Baker, Horace Burrington, Colorado College, Colorado Springs, Colo. (60).

*Baker, Hugh Potter, Dean, New York State College of Forestry, Syracuse, N. Y. (51). 1911. **G M**

*Baker, James Hutchins, LL. D., 980 Marion St., Denver, Colo. (50). 1903. **I**

Baker, Leonard T., University of South Carolina, Columbia, S. C. (60).

*Baker, Richard Philip, Ph. D., Assistant Professor of Mathematics, State University of Iowa, Iowa City, Iowa. (60). 1910. **A**

*Baker, Robert H., Ph. D., Assistant Professor of Astronomy, Brown University, Providence, R. I. (54). 1907. **A**

*Baker, Ross Allen, 429 Walnut St., S. E., Minneapolis, Minn. (58). 1915. **C**

*Baker, Smith, M. D., 296 Rutger St., Utica, N. Y. (54). 1911. **K**

*Bakewell, Charles Montague, Ph. D., Professor of Philosophy, Yale University, New Haven, Conn. (54). 1906. **I**

Bakke, Arthur L., Department of Botany, Iowa State College, Ames, Iowa. (62). **G**

*Balch, Alfred William, M. D., Tufts College Medical School, Boston, Mass. (52). 1911. **C K**

*Balch, Edwin Swift, 1412 Spruce St., Philadelphia, Pa. (51). 1903. **E H**

*Balch, Francis Noyes, 60 State St., Boston, Mass. (50). 1913. **F**

*Balcom, R. Wilfred, Ph. D., Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (58). 1911. **C**

*Baldwin, Bird Thomas, Ph. D., Head, Department of Psychology and Education, Swarthmore College, Swarthmore, Pa. (58). 1910. **H L**

Baldwin, Herbert B., Analytic and Consulting Chemist, 927 Broad St., Newark, N. J. (43). **C**

Baldwin, Mark, Bureau of Soils, U. S. Department of Agriculture, Washington, D. C. (66). **E**

*BALDWIN, SAMUEL PRENTISS, 2930 Prospect Ave., Cleveland, Ohio. (47). 1900. **E**

*BALDWIN, HON. SIMEON EBEN, LL. D., Professor of Law, Yale University, New Haven, Conn. (50). 1901. **I**

*Balke, Clarence William, Ph. D., Professor of Inorganic Chemistry, University of Illinois, Urbana, Ill. (58). 1911. **C**

Ball, Albert, Professor of Physics and Engineering, Cooper Union, New York, N. Y. (58). **B D**

*Ball, Carleton Roy, U. S. Department of Agriculture, Washington, D. C. (49). 1902. **G**

*Ball, Elmer Darwin, Ph. D., Professor of Zoology and Entomology, Agricultural College of Utah, Logan, Utah. (50). 1903. **F**

Ball, Miss Helen Augusta, 43 Laurel St., Worcester, Mass. (50).

*Ball, Max W., U. S. Geological Survey, Washington, D. C. (62). 1914. **E**

*Ballard, William Salisbury, U. S. Department of Agriculture, Washington, D. C. (63). 1913. **G**

*Balliet, Thomas M., Ph. D., Dean, New York University, New York, N. Y. (48). 1903. **H I**

Ballinger, W. N., 224 So. Maple St., Sycamore, Ill. (65).

Ballou, Frank Washington, Ph. D., Director, Department of Educational Investigation and Measurement, Public Schools, Cambridge, Mass. (66). **L**

*Ballou, Henry Arthur, Entomologist, Imperial Department of Agriculture, Barbados, B. W. I. (56). 1914. **F G**

Ballou, Willard Alger, Department of Mathematics, Pratt Institute, Brooklyn, N. Y. (66). **A**

Balta, José, E. M., Mogollon 13, Lima, Peru, S. A. (60). **D**

BALTZELL, WILLIAM HEWSON, Wellesley, Mass. (60).

Balz, Albert George Adam, Adjunct Professor of Philosophy, University of Virginia, Charlottesville, Va. (66). **H**

*Bancroft, Frank Watts, Ph. D., Aloha Farm, R. D., Box 81, Concord, Cal. (50). 1907. **F K**

*Bancroft, J. Sellers, M. E., 917 Pine St., Philadelphia, Pa. (51). 1915. **D**

*Bancroft, Miss Jessie Hubbell, Assistant Director of Physical Training, Department of Education, New York, N Y. (58). 1915. **L**

*Bangs, Outram, Museum of Comparative Zoology, Cambridge, Mass. (47). 1900. **F**

*Banker, Howard James, Ph. D., 21 Ellery St., Cambridge, Mass. (51). 1905. **G**

*Banks, Charles S., Professor of Entomology and Zoology, College of Agriculture, University of the Philippines, Los Banos, P. I. (57). 1914. **F**

Banks, John Edwin, C. E., American Bridge Co., Ambridge, Pa. (60). **D**

Banks, Noah Anthony, Ph. D., Head, Department of Mathematics, Prairie View State Normal and Industrial College, Prairie View, Texas. (64). **A**

*Banta, Arthur Mangun, Ph. D., Bryan, Ohio. (53). 1913. **F**

*Banzhaf, Edwin J., Research Laboratory, East 16th St., New York, N. Y. (60). 1915. **C K**

Barber, George W., U. S. Entomological Laboratory, Charleston, Mo. (66). **F**

*Barber, Herbert Spencer, U. S. National Museum, Washington, D. C. (58). 1914. **F**

*Barber, Thomas C., Delta Laboratory, Tallulah, La. (58). 1915. **F**

*Barbour, Miss Carrie Adeline, Department of Geology, University of Nebraska, Lincoln, Nebr. (53). 1915. **E**

*Barbour, Erwin Hinckley, Ph. D., Professor of Geology, University of Nebraska, Lincoln, Nebr. (45). 1898. **E**

*Barbour, Thomas, Ph. D., Museum of Comparative Zoology, Cambridge, Mass. (52). 1907. **F**

Barck, Carl, M. D., 2715 Locust St., St. Louis, Mo. (52). **K**

*Bardeen, Charles Russell, M. D., Professor of Anatomy, University of Wisconsin, Madison, Wis. (50). 1901. **F K**

*Bardwell, Fred Leslie, Assistant Professor of Chemistry, Case School of Applied Science, Cleveland, Ohio. (60). 1910. **C**

Barger, Thomas Morse, 2650 South 60th Ave., Cicero, Ill. (58).

*Barkan, Adolph, M. D., LL.D., 43 Widenmayer St., Munich, Bavaria. (51). 1909. **K**

Barkan, Hans, 240 Stockton St., San Francisco, Cal. (66).

Barker, Elmer Eugene, Ph. D., Assistant Professor of Plant Breeding, Cornell University, Ithaca, N. Y. (65). **G**

*Barker, Franklin Davis, Ph. D., Associate Professor of Zoology, University of Nebraska, Lincoln, Neb. (62). 1913. **F**

Barker, Franklin Luther, Professor of Geography, University of Oregon, Eugene, Oregon. (63). **E**

*Barker, Lewellys Franklin, M. D., Professor of Medicine, Johns Hopkins University, Baltimore, Md. (57). 1908. **K**

Barlow, John, Professor of Zoology, Rhode Island State College, Kingston, R. I. (51). **F**

*Barlow, William Edward, Ph. D., Virginia Polytechnic Institute, Blacksburg, Va. (60). 1911. **C**

*BARNARD, EDWARD EMERSON, Sc. D., LL. D., Director, Yerkes Observatory, Williams Bay, Wis. (26). 1883. **A**

Barnes, Carl Lewis, M. D., 1977 Ogden Ave., Chicago, Ill. (58). **K**

Barnes, Cecil, 1153 No. Dearborn St., Chicago, Ill. (57). **E**

Barnes, Edward W., P. O. Box 446, New York, N. Y. (49).

Barnes, Francis Merriman, Jr., M. D., Associate in Psychiatry, Washington University, St. Louis, Mo. (61). **K**

*Barnes, Fred Asa, Assistant Professor of Civil Engineering, Cornell University, Ithaca, N. Y. (56). 1912. **D**

*Barnes, Howard Turner, Sc. D., Ph. D., Professor of Physics, McGill University, Montreal, Canada. (57). 1909. **B**

Barnes, Jasper Converse, Maryville College, Maryville, Tenn. (65). **H**

*Barnes, William, M. D., Decatur, Ill. (57). 1915. **K**

Barnett, Edwin S., Mount Alverno, Pa. (64).

*Barnett, Samuel Jackson, Ph. D., Professor of Physics, Ohio State University, Columbus, Ohio. (58). 1910. **B**

Barnett, Victor H., U. S. Geological Survey, Washington, D. C. (62). **E**

*Barney, Ida, Ph. D., Department of Mathematics, Smith College, Northampton, Mass. (63). 1915. **A**

Barnhart, Jesse M., 707 W. Illinois St., Urbana, Ill. (60). **C**

*BARNHART, JOHN HENDLEY, M. D., New York Botanical Garden, Bronx Park, New York, N. Y. (49). 1903. **G K**

*Barnum, Charlotte Cynthia, Ph. D., 344 Humphrey St., New Haven, Conn. (36). 1896. **A I**

Barnum, William Milo, 10 Wall St., New York, N. Y. (57).

*Barr, John Henry, M. E., Remington Typewriter Co., 293 Broadway, New York, N. Y. (51). 1903. **D**

*Barre, Henry Walter, Associate Professor of Botany and Bacteriology, Clemson Agricultural College, Clemson College, S. C. (58). 1911. **G**

*Barrell, Joseph, Ph. D., Professor of Structural Geology, Yale University, New Haven, Conn. (51). 1905. **E**

Barrett, Daisy Adelaide, Department of Education, Chattanooga, Tenn. (66). **L**

*Barrett, James Theophilus, Ph. D., Professor of Plant Pathology, Graduate School of Tropical Agriculture, Riverside, Cal. (58). 1913. **G**

Barrett, Mary Franklin, 19 Elm St., Bloomfield, N. J. (66).

*Barrett, Otis Warren, Chief, Division of Experiment Stations, Bureau of Agriculture, Manila, P. I. (58). 1914. **E F G H K**

*Barrett, Samuel Alfred, Ph. D., Curator, Public Museum, Milwaukee, Wis. (58). 1910. **H**

*Barrett, Storrs Barrows, Secretary, Yerkes Observatory, Williams Bay, Wis. (58). 1913. **A**

Barrett, W. E., Glen Olden, Pa. (60). **A**

*Barrie, George, M. D., 601 West 110th St., New York, N. Y. (49). 1913. **H I**

*Barringer, Daniel Moreau, E. M., 370 Bullitt Building, Philadelphia, Pa. (50). 1911. **D E**

Barrington, Richard L., M. D., 210 Old Custom House, St. Louis, Mo. (60). **K**

Barroll, Mrs. Henry Edwards, M. D., 911 Elm St., Winnetka, Ill. (58). **C K**

Barron, George D., E. M., P. O. Box 596, Rye, N. Y. (57). **D**

Barrow, Bernard, M. D., Barrow's Store, Va. (60). **K**

*Barrows, Albert Lloyd, Department of Geology, University of California, Berkeley, Cal. (63). 1915. **E**

Barrows, Anna, 98 Gainsborough St., Boston, Mass. (65).

*Barrows, Walter Bradford, Professor of Zoology and Physiology, Michigan Agricultural College, East Lansing, Mich. (40). 1897. **F K**

Barrows, Walter Loring, Department of Geology, Trinity College, Hartford, Conn. (63). **E**

*Barrows, William Morton, Assistant Professor of Zoology, Ohio State University, Columbus, Ohio. (57). 1911. **F**

*Barss, Howard Phillips, Assistant Professor of Plant Pathology, Oregon State Agricultural College, Corvallis, Oregon. (61). 1915. **G**

*Barry, Frederick, Ph. D., Havemeyer Hall, Columbia University, New York, N. Y. (64). 1915. **C**

Barth, Carl G., M. E., 6151 Columbia Ave., Philadelphia, Pa. (60). **D**

Bartholomew, C. Edgar, 826 Grand Ave., Ames, Iowa. (54). **F**

Bartholomew, Elam, Stockton, Kansas. (64).

*Bartholomew, Elbert T., Biology Building, University of Wisconsin, Madison, Wis. (63). 1913. **F**

*Bartlett, Edwin Julius, M. D., Professor of Chemistry, Dartmouth College, Hanover, N. H. (28). 1883. **C**

*Bartlett, Harley Harris, Bureau of Plant Industry, U. S. Dept. of Agriculture, Washington, D. C. (61). 1915. **G**

Bartlett, Henry Emmett, C. E., 1447 East 66th Place, Chicago, Ill. (65). **D**

Bartlett, John Pomeroy, Equitable Building, 120 Broadway, New York, N. Y. (57).

Bartlett, Murray, President Emeritus, University of the Philippines, Manila, P. I. (62). **L**

*Bartley, Elias Hudson, M. D., 65 South Portland Ave., Brooklyn, N. Y. (33). 1894. **C K**

Bartley, William M., M. D., Sheyenne, N. D. (60). **K**

Bartol, George, M. E.. President, Otis Steel Co., Ltd., Cleveland, Ohio. (63). **D**

Bartol, John W., 1 Chestnut St., Boston, Mass. (60).

Barton, Donald Clinton, Ph. D., Washington University, St. Louis, Mo. (63). **E**

*Barton, George Estes, 227 Pine St., Millville, N. J. (46). 1898. **C**

*Barton, George Hunt, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (47). 1900. **E G**

Barton, Philip Price, E. E., Vice-President and General Manager, Niagara Falls Power Co., Niagara Falls, N. Y. (50). **B D E H**

*Barton. Ralph M., Professor of Mathematics, Lombard College, Galesburg, Ill. (64). 1915. **A**

*Barton, Samuel Goodwin, Ph. D., Assistant Professor of Astronomy, University of Pennsylvania, Philadelphia, Pa. (58). 1910. **A**

*Barton, Samuel Marx, Ph. D., Professor of Pure Mathematics, University of the South, Sewanee, Tenn. (43). 1899. **A D**

*Bartow, Edward, Ph. D., Professor of Sanitary Chemistry, University of Illinois, Urbana, Ill (47). 1906. **C**

*Bartsch, Paul, Ph. D., Curator of Conchology, Smithsonian Institution, Washington, D. C. (52). 1906. **F**

Baruch, Edgar, 805–806 Callender Building, Los Angeles, Cal. (56). **C D**

*Barus, Carl, Ph. D., LL. D., Professor of Physics, Brown University, Providence, R. I. (33). 1887. **B**

Barwell, John William, 326 Julian St., Waukegan, Ill. (47). **I L**

*Bascom, Florence, Ph. D., Professor of Geology, Bryn Mawr College, Bryn Mawr, Pa. (42). 1897. **E**

*Base, Daniel, Ph. D., 329 North Schroeder St., Baltimore, Md. (60). 1911. **C**

*Bashore, Harvey Brown, M. D., West Fairview, Pa. (46). 1911. **E K**

*Baskerville, Charles, Ph. D., Professor of Chemistry, College of the City of New York, New York, N. Y. (41). 1894. **C E**

Basset, Gardner Cheney, Ph. D., Carnegie Institution, Cold Spring Harbor, N. Y. (60). **F**

Bassett, Carroll Phillips, Ph. D., Civil and Consulting Engineer, Summit, N. J. (51). **B D I**

*Bassett, William H., Cheshire, Conn. (57). 1909. **C**

Bassler, Harvey, Ph. D., 1421 McCulloh St., Baltimore. Md. (61). **E F**

*Bassler, Ray Smith, Ph. D., U. S. National Museum, Washington, D. C. (60). 1911. **E**

*Bassoe, Peter, M. D., 1022 Maple Ave., Evanston, Ill. (58). 1911. **H K**

Baston, George Henry, Bureau of Plant Industry, U. S. Dept. of Agriculture, Washington, D. C. (65). **C M**

*Batchelder, Charles Foster, 7 Kirkland St., Cambridge, Mass. (54). 1907.

Batchelor, Leon Dexter, Ph. D., Associate Professor of Plant Breeding, Citrus Experiment Station, Riverside Cal. (64). **G**

Bateman, George Frederick, E. E., Cooper Union, New York, N. Y. (60). **D**

*Bates, Clinton Owen, Ph. D., Professor of Chemistry, Coe College, Cedar Rapids, Iowa. (58). 1911. **C**

Bates, Henry H., Ph. D., The Revere, 1201 M St. N. W., Washington, D. C. (52). **A B D**

*Bates, Rev. John Mallery, Red Cloud, Nebr. (51). 1903. **F G H L**

*Bates, P. H., U. S. Bureau of Standards, Pittsburgh, Pa. (60). 1914. **C E**

*Battle, Herbert Bemerton, Ph. D., President, The Battle Laboratory, 103 South Court St., Montgomery, Ala. (58). 1910. **C**

Bauer, George W., 660 Sacramento St., San Francisco, Cal. (60). **C**

*Bauer, Louis A., C. E., Ph. D., Sc. D., Director, Department of Terrestrial Magnetism, Carnegie Institution of Washington, Washington, D. C. (40). 1892. **A B E L**

Bauer, Oswald A., Sparkill, N. Y. (64).

*Bauer, William Charles, E. E., Sc. D., Professor of Electrical Engineering, Northwestern University, Evanston, Ill. (58). 1910. **A B C D**

Baugh, Margaret L., 27 West 67th St., New York, N. Y. (57).

Baumberger, J. Percy, Bussey Institution, Forest Hills, Boston, Mass. (65).

Baumberger, James, 791 Buena Vista Avenue, San Francisco, Cal. (65).

*Baumgartner, William Jacob, Ph. D., Assistant Professor of Zoology, University of Kansas, Lawrence, Kans. (58). 1911. **F**

*Bausch, Edward, P. O. Drawer 1033, Rochester, N. Y. (26). 1883. **A B C F**

*Bawden, H. Heath, Ph. D., San Ysidro, Cal. (51). 1905. **F H**

*Baxter, Gregory Paul, Ph. D., Assistant Professor of Chemistry, Harvard University, Cambridge, Mass. (54). 1906. **C**

*Bayley, William Shirley, Ph. D., Professor of Geology, University of Illinois, Urbana, Ill. (53). 1905. **E**

Bayliss, James, 1 Spring St., Taunton, Mass. (65).

Bazet, Louis, M. D., 844 Phelan Building, San Francisco, Cal. (65). **K**

Beach, Charles Coffing, M. D., 54 Woodland St., Hartford, Conn. (50). **F K**

Beal, George Safford, C. E., 3018 No. 2d St., Harrisburg, Pa. (60). **D**

Beal, Walter Henry, Office of Experiment Stations, U. S. Department of Agriculture, Washington, D. C. (52). **C M**

*Beal, William James, Ph. D., Sc. D., 40 Sunset Ave., Amherst, Mass. (17). 1880. **G**

Beal, William Otis, Assistant Astronomer, University of Minnesota, Minneapolis, Minn. (60). **A**

Beals, Edward Alden, care Weather Office, Portland, Oregon. (62).

Beaman, George Herbert, 2232 Massachusetts Ave. N. W., Washington, D. C. (52). **I**

Bean, A. M., Pacific University, Forest Grove, Ore. (66).

Bean, Dr. C. Homer, 408 West 124th St., New York, N. Y. (64).

Bean, Charles D., LL.D., 9 Masonic Temple, Geneva, N. Y. (65).

*Bean, Robert Bennett, M. D., Professor of Anatomy, Medical School, Tulane University, New Orleans, La. (58). 1911. **F H K**

Bear, Firman E., Assistant Professor of Agricultural Chemistry, Agricultural Experiment Station, Morgantown, W. Va. (66). **C M**

*Beard, James Thom, E. M., Associate Editor, *Coal Age*, 369 Waverly Ave., Brooklyn, N. Y. (58). 1912. **B C D L**

Beard, Stanley D., Lederle Antitoxin Laboratories, Pearl River, N. Y. (63). **F**

*Beardsley, Arthur Eugene, Professor of Biology, Colorado State Teachers College, Greeley, Colo. (50). 1901. **F**

Beardsley, G. F., Carmel, Cal. (65).

*Beates, Henry, Jr., M. D., Sc. D., 260 South 16th St., Philadelphia, Pa. (51). 1909. **K**

Beattie, Frederick Steere, Professor of Chemistry, Lehigh University, South Bethlehem, Pa. (57). **C**

*Beattie, R. Kent., 2518 17th St., Washington, D. C. (63). 1915. **G**

Beaulieu, Germain, Room 203, New York Life Building, Montreal, Canada. (58). **F**

Beazley, Capt. Arthur Tetley, E. E., 20th (service) Batt., K. L. R., Prescot, Lancashire, England. (60). **D**

Bebb, Edward Crosby, C. E., U. S. Reclamation Service, Glendive, Montana. (52). **E**

Bebb, William, Dental Department, University of Southern California, Los Angeles, Cal. (60). **K**

Beck, Emil G., M. D., 2632 Lake View Ave., Chicago, Ill. (58). **K**

Beck, Matthias A., M. E., 294 Greenbush St., Milwaukee, Wis. (60). **D**

Beck, William H., 1403 H St., N. W., Washington, D. C. (62).

Becker, Emil Arthur, 31 Irving Place, Buffalo, N. Y. (65).

*Becker, George Ferdinand, Ph. D., U. S. Geological Survey, Washington, D. C. (36). 1890. **E**

Becker, Irwin A., care Michael Reese Hospital, 29th St. and Groveland Ave., Chicago, Ill. (58). **C E G K**

Becknell, Guy Gaillard, Northwestern University, Evanston, Ill. (58). **B**

*Beckwith, Angie M., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (62). 1915. **G**

Beckwith, Cora Jipson, Associate Professor of Zoology, Vassar College, Poughkeepsie, N. Y. (65). **F**

BECKWITH, EDWARD P., Garrison, N. Y. (63).

Beckwith, George Sherman, 1113 Williamson Building, Cleveland, Ohio. (63).

*Beckwith, Theodore Day, Head, Department of Bacteriology, Oregon State Agricultural College, Corvallis, Oregon. (57). 1911. **F G K**

*Bedell, Frederick, Ph. D., Professor of Applied Electricity, Cornell University, Ithaca, N. Y. (41). 1894. **A B**

*Bedford, M. Hume, Ph. D., Paris, Ky. (58). 1910. **C**

*Beebe, Charles William, Curator of Ornithology, New York Zoological Park, New York, N. Y. (53). 1905. **F**

*Beebe, Silas Palmer, M. D., Ph. D., Physiological Chemist to the Huntington Fund for Cancer Research, 216 Central Ave., Flushing, N. Y. (54). 1906. **K**

*Beede, Joshua William, Ph. D., Associate Professor of Geology, Indiana University, Bloomington, Ind. (50). 1906. **E**

Beekman, Gerard, 48 West 74th St., New York, N. Y. (49).

*Beer, Edwin, M. D., 48 West 74th St., New York, N. Y. (56). 1908. **K**

Beer, James Anderson, M. D., Health Office, City Hall, Columbus, Ohio. (58). **C K**

Beers, Everett Jacob, Principal, Oak Grove Seminary and Bailey Institute, Vassalboro, Me. (57). **B C**

Beers, William Herbert, Chemist and Bacteriologist, 1524 Henderson St., Columbia, S. C. (58). **C F G H K**

*Beeson, Jasper Luther, Ph. D., Professor of Chemistry and Physics, Georgia Normal and Industrial College, Milledgeville, Ga. (57). 1909. **B C**

Begeman, Louis, Ph. D., Department of Physics, Iowa State Teachers College, Cedar Falls, Iowa. (62). **B**

Begg, Alexander S., M. D., Harvard Medical School, Boston, Mass. (64). **K**

Bégin, L'abbé P. A., Professor of Physics and Chemistry, Seminaire Saint Charles Borromée, Sherbrook, Quebec, Canada. (58). **B C**

Behlow, W. W., M. D., 233 Post St., San Francisco, Cal. (66). **K**

Behr, Edward, C. E., 838 Carroll St., Brooklyn, N. Y. (57). **D H L**

Behr, Gustavus E., Jr., 605 3d St., Brooklyn, N. Y. (58). **C**

Behre, Elinor H., Newcomb College, New Orleans, La. (65). **F**

*Behrend, Bernard Arthur, C. E., E. E., 200 Devonshire St., Boston, Mass. (50). 1903. **A B D I L**

*Beinhart, Ernest G., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (64). 1915. **G**

Belcher, Prof. Burton, Principal, Gadsden County High School, Quincy, Fla. (63). **L**

Belden, Henry Marvin, Ph. D., Professor of English, College of Agriculture, Columbia, Mo. (64). **L**

Belknap, Henry Wyckoff, 31 Warren St., Salem, Mass. (57).

*Bell, Albert Thomas, Professor of Botany, Louisiana State University, Baton Rouge, La. (52). 1903. **G**

*Bell, Alexander Graham, M. D., Sc. D., Ph. D., LL. D., 1331 Connecticut Ave. N. W., Washington, D. C. (26). 1879. **B H I**

Bell, C. M., M. D., 320 Fifth Ave., New York, N. Y. (36). **K**

Bell, Charles J., President, American Security and Trust Co., Washington, D. C. (63).

*Bell, E. T., Department of Mathematics, University of Washington, Seattle, Wash. (65). 1915. **A**

Bell, J. Finley, M. D., Englewood, N. J. (57). **K**

*Bell, James Carleton, Ph. D., University of Texas, Austin, Texas. (58). 1910. **F H L**

Bell, James Ford, 2215 Park Ave., Minneapolis, Minn. (65).

*Bell, James Munsie, Ph. D., Professor of Physical Chemistry, University of North Carolina, Chapel Hill, N. C. (58). 1909. **B C**

*Bell, John Everett, M. E., 133 8th Ave., Brooklyn, N. Y. (53). 1906. **D**

Bell, Miss Laura, 1428 Spruce St., Philadelphia, Pa. (64).

*Bell, Robert, M. D., Sc. D., LL. D., 136 Maclaren St., Ottawa, Canada. (38). 1889. **E F K**

Bell, William Bonar, Ph. D., Professor of Zoology and Physiology, North Dakota Agricultural College, Agricultural College, N. D. (56). **F K**

Beller, William Frank, New York Custom House, 51 East 123d St., New York, N. Y. (56). **F H I**

Belling, John, Agricultural Experiment Station, Gainesville, Fla. (58). **G**

*Belmont, August, 43 Exchange Place, New York, N. Y. (50). 1906. **I**

BELMONT, HON. PERRY, 580 Fifth Ave., New York, N. Y. (57).

*Beman, Wooster Woodruff, LL. D., Professor of Mathematics, University of Michigan, Ann Arbor, Mich. (34). 1886. **A**

Bement, Alburto, E. M., 29 South La Salle St., Chicago, Ill. (52). **B C D E**

Benecke, Adelbert Oswald, E. E., 46 West Cottage St., Boston, Mass. (58). **D**

*Benedict, Francis Gano, Ph. D., Director, Nutrition Laboratory, Carnegie Institution of Washington, Boston, Mass. (55). 1908. **C K**

Benedict, Harris Miller, Assistant Professor of Biology, University of Cincinnati, Cincinnati, Ohio. (52). **F G**

*Benedict, Harry Yandell, Ph. D., Professor of Applied Mathematics, University of Texas, Austin, Tex. (58). 1911. **A D**

*Benedict, Ralph Curtis, 2303 Newkirk Ave., Brooklyn, N. Y. (60). 1911. **G**

Benedict, William de L., E. M., 19 Cedar St., New York, N. Y. (57). **D**

Bengston, Rev. Carl J., 4502 9th Ave., Rock Island, Ill. (58). **H**

*BENJAMIN, MARCUS, Sc. D., Ph. D., LL. D., U. S. National Museum, Washington, D. C. (27). 1887. **C I**

Bennehoff, James D., Professor of Geology and Biology, Alfred University, Alfred, N. Y. (61). **E F G K**

Benner, Winthrop W., P. O. Box 540, Port Arthur, Ontario, Canada. (60). **C**

*Benneson, Miss Cora Agnes, 3 Phillips Place, Cambridge, Mass. (47). 1899. **H I**

*Bennett, Alfred Allen, Professor of Chemistry, Iowa State College, Ames, Iowa. (54). 1906. **C**

Bennett, Charles Wilkes, Coldwater, Mich. (50). **E F G**

Bennett, Henry C., Hotel Longacre, 157 West 47th St., New York, N. Y. (43).

Bennett, James Percy, Department of Botany, University of Wisconsin, Madison, Wis. (65). **G**

Bennett, John N., Professor of Mathematics, Doane College, Crete, Nebr. (57). **A**

Bennett, Lee F., Professor of Zoology and Geology, Valparaiso University, Valparaiso, Ind. (58). **E F**

Bennett, Robert H., 444 Market St., San Francisco, Cal. (65).
*Bennett, William Zebina, Ph. D., Director, Chemical Laboratory, College of Wooster, Wooster, Ohio. (48). 1903. **C**
Bennion, Milton, Professor of Philosophy, University of Utah, Salt Lake City, Utah. (60). **L**
*Bensley, Benjamin Arthur, Ph. D., Associate Professor of Zoology, University of Toronto, Toronto, Canada. (58). 1910. **F K**
*Bensley, Robert Russell, Professor of Anatomy, University of Chicago, Chicago, Ill. (60). 1911. **K**
Benson, R. Dale, Jr., 1120 Spruce St., Philadelphia, Pa. (65).
*Bentley, Gordon Mansir, Assistant Professor of Entomology, University of Tennessee, Knoxville, Tenn. (54). 1914. **F**
*Bentley, Madison, Ph. D., Professor of Psychology, University of Illinois, Urbana, Ill. (54). 1906. **H K**
*Bentley, William Burdelle, Ph. D., Professor of Chemistry, Ohio University, Athens, Ohio. (51). 1903. **C**
Bentley, Wilson Alwyn, Jericho, Vt. (48). **B**
Benton, Frank, P. O. Box 17, Washington, D. C. (54). **F**
*Benton, John Robert, Ph. D., Professor of Physics and Electrical Engineering, University of Florida, Gainesville, Fla. (51). 1906. **B D**
*Benzenberg, George Henry, C. E., Sc. D., 1310 Wells Building, Milwaukee, Wis. (58). 1911. **D**
*Berg, Ernst Julius, E. E., Sc. D., Professor of Electrical Engineering, Union College, Schenectady, N. Y. (63). 1915. **D**
*Berg, William Nathan, Ph. D., Bureau of Animal Industry, U. S. Department of Agriculture, Washington, D. C. (55). 1911. **C K**
Bergeim, Olaf, Jefferson Medical College, Philadelphia, Pa. (65). **C K**
*Bergen, Joseph Young, 47 Raymond St., North Cambridge, Mass. (57). 1909. **G**
Bergen, Van Brunt, C. E., Shore Road and 77th St., Brooklyn, N. Y. (54). **C I**
*Berger, Edward William, Ph. D., Florida Agricultural Experiment Station, Gainesville, Fla. (57). 1914. **F**
*Bergey, David Hendricks, M. D., Assistant Professor of Bacteriology, University of Pennsylvania, Philadelphia, Pa. (48). 1903. **K**
Berghausen, Dr. E. J., 3427 Evans Place, Clifton, Cincinnati, Ohio. (58). **C**
Bergin, Rev. Alfred, Ph. D., Lindsborg, Kans. (60). **H**
Bergland, Major Eric, P. O. Box 30, Baltimore, Md. (60).
Bergman, Herbert Floyd, Assistant Professor of Botany, University of Minnesota, Minneapolis, Minn. (60). **G**
Bergmen, F. G. A. H., 3700 California St., San Francisco, Cal. (65).
*Berkey, Charles Peter, Ph. D., Associate Professor of Geology, Columbia University, New York, N. Y. (50). 1905. **E**
Berlenbach, Philip H., M. D., 9 Stuyvesant Ave., Brooklyn, N. Y. (60). **K**

Berlin, Henry, M. D., 110 McCallie Ave., Chattanooga, Tenn. (58). **K**
Bernheimer, Charles L., 120 Franklin St., New York, N. Y. (49).
Bernstein, B. A., 2131 Haste St., Berkeley, Cal. (65).
*Berolzheimer, Daniel Deronda, The Chemists Club, 52 East 41st St., New York, N. Y. (55). 1911. **C H**
Berry, Charles Scott, Ph. D., Assistant Professor of Psychology, University of Michigan, Ann Arbor, Mich. (63). **H**
Berry, Daniel, M. D., Carmi, Ill. (41). **B C E**
*Berry, Edward Wilber, Johns Hopkins University, Baltimore, Md. (50). 1905. **E G**
Berry, James Bert, Professor of Forestry, State Forest School, Athens, Ga. (63). **G M**
Berry, John Wilson, C. E., Pittston, Pa. (47). **D**
Berry, Josephine Thorndike, Chief, Division of Home Economics, Dept. of Agriculture, University Farm, St. Paul, Minn. (65).
*Berry, S. Stillman, Ph. D., 745 West Highland Ave., Redlands, Cal. (61). 1915. **F**
*Berry, William Johnston, Assistant Professor of Mathematics, Polytechnic Institute, Brooklyn, N. Y. (62). 1915. **A**
Berwick, Edward, 343 Ocean View Ave., Pacific Grove, Cal. (65).
Besley, F. W., State Forester, Johns Hopkins University, Baltimore, Md. (66). **M**
*Bessey, Ernst Athearn, Ph. D., Professor of Botany, Michigan Agricultural College, East Lansing, Mich. (49). 1901. **G**
*Best, George Newton, M. D., Rosemont, N. J. (54). 1911. **G K**
*Bethune, Charles James Stewart, Professor of Entomology, Ontario Agricultural College, Guelph, Ontario, Canada. (18). 1875. **F**
Betten, Cornelius, Ph. D., Secretary, N. Y. State College of Agriculture, Ithaca, N. Y. (56). **F M**
*Betts, Anson Gardner, E. M., Troy, N. Y. (60). 1911. **C D**
Betts, Charles Henry, 29 Holly St., Lyons, N. Y. (65).
*Betts, George Herbert, Ph. D., Professor of Psychology and Education, Cornell College, Mt. Vernon, Iowa. (63). 1914. **H L**
Betts, Samuel Rossiter, Kuhn-Loeb Building, 52 William St., New York, N. Y. (57). **D L**
Beubler, George O. H., 1206 West 11th St., Los Angeles, Cal. (58). **C**
*Beutenmüller, William, 879 Whitlock Ave., New York, N. Y. (57). 1914. **F G I L**
*Bevan, Arthur Dean, M. D., Professor of Surgery, Rush Medical College, Chicago, Ill. (58). 1909. **K**
Bevier, George, Jr., 702 Alice Ave., Spokane, Wash. (55). **D**
*Bevier, Isabel, Professor of Household Science, University of Illinois, Urbana, Ill. (46). 1909. **C**
*Beyer, George Eugene, Professor of Biology, Tulane University, New Orleans, La. (54). 1906. **F G**

Beyer, J. Walter, M. D., 401 Eastern Ave., Aspinwall, Pa. (60). **K**

*Beyer, Samuel Walker, Ph. D., Professor of Geology and Mining Engineering, Iowa State College, Ames, Iowa. (47). 1900. **D E**

*Bibbins, Arthur Barneveld, Curator and Instructor in Geology and Mineralogy, Goucher College, Baltimore, Md. (54). 1906. **E**

*Bicknell, Eugene Pintard, 30 Pine St., New York, N. Y. (64). 1915. **G**

*Biddle, Henry Chalmers, Ph. D., Assistant Professor of Chemistry, University of California, Berkeley, Cal. (60). 1910. **C**

Biddle, James G., 1211 Arch St., Philadelphia, Pa. (33). **B**

Biddle, Miss M. Georgina, Pembroke West, Bryn Mawr, Pa. (65).

BIDDLE, THOMAS, M. D., 1301 Walnut St., Philadelphia, Pa. (65). **K**

Bidwell, C. C., Ph. D., 503 Dryden Road, Ithaca, N. Y. (66). **B**

Bidwell, George L., 1225 S St. N. W., Washington, D. C. (60). **C**

Bienenfeld, Bernard, 525 Rialto Building, San Francisco, Cal. (65).

Bierbaum, Christopher Henry, M. E., Consulting Engineer, 931 Marine Bank Building, Buffalo, N. Y. (53). **D**

Biester, Miss Alice, Purdue University, La Fayette, Ind. (66). **I**

*Bigelow, Frank Hagar, Professor of Meteorology, Oficina Meteorologica, Cordoba, Argentina, S. A. (36). 1888. **A B**

Bigelow, Harold E., Ph. D., 66 Oriole Ave., Providence, R. I. (63).

*Bigelow, Harriet W., Ph. D., Professor of Astronomy, Smith College, Northampton, Mass. (57). 1909. **A**

*Bigelow, Henry Bryant, Ph. D., Museum of Comparative Zoology, Cambridge, Mass. (52). 1909. **F**

*Bigelow, Maurice Alpheus, Ph. D., Professor of Biology, Teachers College, Columbia University, New York, N. Y. (51). 1903. **F L**

*Bigelow, Robert Payne, Ph. D., Professor of Zoology, Massachusetts Institute of Technology, Boston, Mass. (51). 1903. **F**

*Bigelow, Samuel Lawrence, Ph. D., Professor of General Chemistry, University of Michigan, Ann Arbor, Mich. (51). 1903. **C**

*Bigelow, Willard Dell, Research Laboratories, National Canners Association, Washington, D. C. (53). 1906. **C**

Bigelow, William Sturgis, M. D., 56 Beacon St., Boston, Mass. (57). **K**

*Biggs, Hermann Michael, M. D., LL. D., Commissioner of Health, 113 West 57th St., New York, N. Y. (60). 1914. **K**

Bigney, Andrew Johnson, Professor of Biology and Geology, Moores Hill College, Moores Hill, Ind. (50). **E F**

Bijur, Moses, Hotel Ansonia, New York, N. Y. (57). **C D E**

Bikle, Charles Earle, Head, Department of Mathematics, Central High School, Syracuse, N. Y. (60). **A**

*Billings, Frank, M. D., 242 East Walton Place, Chicago, Ill. (58). 1909. **H K L**

Billings, Hanna Louisa, Hatfield, Mass. (66). **B**

Billingsley, Paul, 1025 West Broadway, Butte, Mont. (61). **F**

*Binford, Raymond, Ph. D., 226 College Ave., Richmond, Ind. (64). 1915. **F**

*Bingham, Hiram, Ph. D., Professor of Latin-American History, Yale University, New Haven, Conn. (58). 1911. **I**

*Bingham, Walter VanDyke, Ph. D., Professor of Psychology, Carnegie Institute of Technology, Pittsburgh, Pa. (60). 1911. **H**

*Bioletti, Frederic Theodore, Professor of Viticulture, University of California, Berkeley, Cal. (62). 1915. **G**

Birchett, J. G., M. D., Cardwell, Mo. (58). **K**

BIRD, CHARLES SUMNER, JR., East Walpole, Mass. (60).

*Bird, Henry, Rye, N. Y. (55). 1914. **F**

*Bird, Robert Montgomery, Ph. D., Professor of Chemistry, University of Virginia, Charlottesville, Va. (57). 1909. **C**

*Birge, Edward Asahel, Sc. D., Ph. D., LL. D., Dean, College of Letters and Science, University of Wisconsin, Madison, Wis. (53). 1905. **F**

Birkhahn, George D., Department of Soils and Crops, Baron de Hirsch Agricultural School, Woodbine, N. J. (66). **G**

*Birkhoff, George David, Ph. D., Professor of Mathematics, Princeton University, Princeton, N. J. (61). 1911. **A**

Birnie, Clotworthy, M. D., Taneytown, Md. (60). **K**

BIRNIE, COLONEL ROGERS, U. S. A., Ordnance Office, War Department, Washington, D. C. (62). **D**

*Bishop, Frederic Lendall, Ph. D., Professor of Physics, University of Pittsburgh, Pittsburgh, Pa. (62). 1915. **B**

*Bishop, Howard Berkey, 1372 Union St., Brooklyn, N. Y. (56). 1908. **C**

Bishop, Mrs. Josephine Hall, care Thomas B. Bishop Co., Whittell Building, San Francisco, Cal. (51). **H**

*Bishop, Louis Bennett, M. D., 356 Orange St., New Haven, Conn. (50). 1906. **I K**

*Bishop, Louis Faugeres, M. D., 54 West 55th St., New York, N. Y. (60). 1911. **K**

*Bishopp, Fred Corry, P. O. Box 208, Dallas, Texas. (54). 1913. **F**

*Bissell, George Welton, Dean of Engineering, Michigan Agricultural College, East Lansing, Mich. (53). 1905. **D**

*Bissing, William F., E. E., 2 Rector St., New York, N. Y. (55). 1909. **B D H I**

Bitner, Henry F., Ph. D., Center Hall, Pa. (52). **B C G**

*Bitting, Katherine Golden, Block 12, Palace of Horticulture, San Francisco, Cal. (42). 1897. **G**

*BIXBY, GEN. WILLIAM HERBERT, Chief of Engineers, Retired, U. S. A., 735 Southern Building, Washington, D. C. (34). 1892. **D**

*Bizzell, William Bennett, President, College of Industrial Arts, Denton, Texas. (62). 1915. **I**

Bjorge, Oscar Bernard, 623 10th Ave., East, Duluth, Minn. (64).
Black, Alexander, Fort Defiance, Ariz. (60). **H**
Black, Carl E., M. D., Jacksonville, Ill. (60). **K**
*Black, Newton Henry, Roxbury Latin School, Boston, Mass. (50). 1911. **B C**
*Black, Otis Fisher, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (60). 1914. **C**
Black, Robert A., M. D., Virginia Hot Springs, Va. (60). **K**
*Black, Roger D., Captain, Corps of Engineers, U. S. A., Manila, P. I. (60). 1915. **D**
*Blackiston, A. H., 149 California St., San Francisco, Cal. (60). 1913.
*Blackman, Maulsby Willett, Ph. D., Associate Professor of Zoology, New York State College of Forestry, Syracuse, N. Y. (64). 1915. **F**
BLACKMORE, HENRY SPENCER, 206 South 9th Ave., Mount Vernon, N. Y. (49). **C**
*Blackshear, Edward Levoisier, Principal, Prairie View State Normal and Industrial College, Prairie View, Tex. (52). 1907. **H I L**
*Blackwelder, Eliot, Professor of Geology, University of Wisconsin, Madison, Wis. (55). 1908. **E F**
Blackwood, Alexander Leslie, M. D., 9151 Commercial Ave., Chicago, Ill. (58). **K**
*Blain, Alexander Willis, M. D., 1105 Jefferson Ave., East, Detroit, Mich. (52). 1906. **F K**
Blaine, Anita McCormick, 101 East Erie St., Chicago, Ill. (58).
Blair, A. W., 202 Lawrence Ave., New Brunswick, N. J. (58). **C**
*Blair, Andrew Alexander, 406 Locust St., Philadelphia, Pa. (44). 1896. **C**
*Blair, Joseph Cullen, Professor of Horticulture, University of Illinois, Urbana, Ill. (63). 1915. **G**
Blair, R. Eugene, U. S. Experiment Farm, Bard, Cal. (63). **G**
*Blaisdell, Frank Ellsworth, M. D., 1520 Lake St., San Francisco, Cal. (60). 1915. **F K**
Blaisdell, James Arnold, D. D., President, Pomona College, Claremont, Cal. (65). **L**
Blaise, T. T., Mason City, Iowa. (58).
*Blake, Clarence John, M. D., 226 Marlborough St., Boston, Mass. (24). 1877. **B F K**
*Blake, Frederic Columbus, Ph. D., Professor of Physics, Ohio State University, Columbus, Ohio. (60). 1909. **B**
Blake, Irving Hill, care A. M. Kincaid, 109 Sawyer St., South Portland, Maine. (65).
*Blake, Maurice Adin, Associate Professor of Horticulture, New Jersey Agricultural Experiment Station, New Brunswick, N. J. (63). 1915. **G**

*Blaker, Ernest, Ph. D., Assistant Professor of Physics, Cornell University, Ithaca, N. Y. (51). 1907. **B**

*Blakeslee, Albert Francis, Ph. D., Cold Spring Harbor, L. I., New York, (52). 1909. **G**

Blakiston, Kenneth M., 1012 Walnut St., Philadelphia, Pa. (54).

*Blanchard, Arthur Alphonzo, Ph. D., Associate Professor of Inorganic Chemistry, Massachusetts Institute of Technology, Boston, Mass. (58). 1910. **C**

*Blanchard, Arthur Horace, C. E., Professor of Highway Engineering, Columbia University, New York, N. Y. (52). 1905. **B D E**

Blanchard, Frank W., Department of Zoology, Massachusetts Agricultural College, Amherst, Mass. (65). **F**

*Blanchard, William Martin, Ph. D., Professor of Chemistry, De Pauw University, Greencastle, Ind. (58). 1911. **C**

Bland, Curtis, M. D., Oneida Hospital, Preston, Idaho. (60). **K**

*Bland, John Carlisle, C. E., Room 1115, Union Station, Pittsburgh, Pa. (51). 1915. **D**

Blaney, Mrs. Charles D., Saratoga, Cal. (65).

*Blankinship, Joseph William, Ph. D., 2525 Hilgard Ave., Berkeley, Cal. (51). 1909. **G**

*Blasdale, Walter Charles, Ph. D., Assistant Professor of Chemistry, University of California, Berkeley, Cal. (50). 1908. **C**

*Bleile, Albert Martin, M. D., Professor of Anatomy and Physiology, Ohio State University, Columbus, Ohio. (37). 1896. **F**

*Bleininger, Albert Victor, Bureau of Standards, Pittsburgh, Pa. (58). 1911. **C D**

Bliem, Daniel William, C. E., Manager, American Bridge Co., 1614 Pennsylvania Building, Philadelphia, Pa. (60). **D**

Bliem, Milton J., M. D., 235 West Mistletoe Ave., San Antonio, Tex. (60). **K**

BLISH, W. G., Niles, Mich. (33). **B D**

Bliss, A. Richard, Jr., 824 South 20th St., Birmingham, Ala. (63).

*Bliss, Rev. Charles Bemis, Ph. D., McIndoe Falls, Vt. (49). 1906. **H I**

Bliss, Edwin Packard, C. E., 120 Milk St., Boston, Mass. (60). **D**

*BLISS, GILBERT AMES, Ph. D., Associate Professor of Mathematics, University of Chicago, Chicago, Ill. (55). 1907. **A**

Bliss, Mary Campbell, 31 Stone Hall, Wellesley College, Wellesley, Mass. (62). **G**

Bliss, R. K., Director, Agricultural Extension Department, Iowa State College, Ames, Iowa. (66). **M**

BLISS, MRS. WILLIAM HENRY, 6 East 65th St., New York, N. Y. (57).

Block, Edward Bates, M. D., Empire Building, Atlanta, Ga. (65). **K**

*Blodgett, Frederick Harvey, Ph. D., Texas Agricultural Experiment Station, College Station, Texas. (52). 1905. **G L**

Blome, R. H. H., Ph. D., Northern Arizona Normal School, Flagstaff, Ariz. (65). **H L**

*Bloodgood, Joseph Colt, M. D., 904 North Charles St., Baltimore, Md. (55). 1909. **K**

BLOUNT, HENRY FITCH, "The Oaks," Washington, D. C. (32). **B I**

Blount, Miss Mary P., Department of Science, Chicago Normal College, Chicago, Ill. (65). **F**

*Blum, William, Ph. D., Bureau of Standards, Washington, D. C. (55). 1911. **C**

Blumenthal, Sidney, 305 West 90th St., New York, N. Y. (57).

*Blumer, George, M. D., Dean, Yale Medical School, New Haven, Conn. (60). 1911. **K**

*Blunt, Katharine, Ph. D., 1156 East 56th St., Chicago, Ill. (58). 1910. **C**

Boardman, W. W., M. D., Lane Hospital, San Francisco, Cal. (66). **K**

*Boas, Franz, Sc. D., Ph. D., LL. D., Franklin Ave., Grantwood, N. J. (36). 1888. **H I**

*Bodine, Donaldson, Sc. D., Professor of Geology and Zoology, Wabash College, Crawfordsville, Ind. (45). 1899. **E F**

Boerker, Richard Hans, 143 Linwood St., Brooklyn, N. Y. (65). **M**

Boerner, Emil G., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (62). **G**

Boerner, Wunibald R., Ravinia, Ill. (54). **B D**

*Bogert, Marston Taylor, LL. D., Professor of Organic Chemistry, Columbia University, New York, N. Y. (47). 1900. **C**

*Boggs, Gilbert Hillhouse, Ph. D., Associate Professor of Chemistry, Georgia School of Technology, Atlanta, Ga. (58). 1910. **C**

Boggs, Lucinda Pearl, Ph. D., 811 West Illinois St., Urbana, Ill. (57). **H**

Bogue, Edward Augustus, M. D., 63 West 48th St., New York, N. Y. (57). **K**

Bohlen, Francis Hermann, Professor of Law, University of Pennsylvania, Philadelphia, Pa. (65). **I**

Bohleng, Lee Hayes Chentu High School, Chentu, Szchuen, China. (58). **B C D**

Boley, Ernst, Assistant General Superintendent, American Steel and Wire Co., Cleveland, Ohio. (63).

Bolles, Newton Alden, M. D., 18 Ferguson Building, Denver, Colo. (50). **C D I K**

*Bolley, Henry Luke, Professor of Botany and Zoology, North Dakota Agricultural College, Agricultural College, N. D. (39). 1892. **F G**

Bolling, George E., 17 Gifford St., Brockton, Mass. (58). **C K**

*Bolser, Charles E., Hanover, N. H. (58). 1910. **C**

Bolster, Augustus S., M. D., 323 Pleasant St., Worcester, Mass. (50). **K**

*Bolton, Frederick Elmer, Ph. D., Professor of Education, University of Washington, Seattle, Wash. (62). 1915. **L**

*Bolton, Thaddeus Lincoln, Ph. D., University of Montana, Missoula, Mont. (50). 1901. **H I**

*Bond, George Meade, M. E., 141 Washington St., Hartford, Conn. (33). 1885. **D**

Bond, Josiah, Alto, Arizona. (58). **C D**

*Bondurant, Eugene Du Bose, M. D., Professor of Pathology and Bacteriology, University of Alabama, Mobile, Ala. (54). 1909. **K**

*Bonnet, Frederic, Jr., Ph. D., Assistant Professor of Chemistry, Worcester Polytechnic Institute, Worcester, Mass. (53). 1906. **C**

Bonnett, Charles Pierre, C. E., 265 Webster Ave., New Rochelle, N. Y. (60). **D**

*Bonns, Walter W., Citrus Experiment Station, Riverside, Cal. (62). 1915. **G**

Bonsall, Mrs. Elizabeth Hubbard, Morton, Pa. (64). **E**

*Book, William Frederick, Ph. D., 3249 Broadway, Indianapolis, Ind. (60). 1911. **H**

*Bookman, Samuel, Ph. D., 46 East 82d St., New York, N. Y. (47). 1900. **C K**

Boon, John Daniel, Professor of Physics, Chemistry and Geology, Polytechnic College, Fort Worth, Tex. (50). **B C E**

Boone, Richard G., 2831 Benvenue Ave., Berkeley, Cal. (66).

Booraem, John Van Vorst, M. E., 204 Lincoln Place, Brooklyn, N. Y. (36). **B C**

Boot, David Herbert, P. O. Box 75, Iowa City, Iowa. (63). **E G**

Boot, George W., M. D., Evanston, Ill. (65). **K**

*Booth, Edward, Department of Chemistry, University of California, Berkeley, Cal. (50). 1909. **C**

*Booth, Miss Mary Ann, 60 Dartmouth St., Springfield, Mass. (34). 1894. **F G I**

Boothroyd, S. L., University of Washington, Seattle, Wash. (65).

Borden, Miss Lydia Prichett, National Farm School, Farm School, Pa. (63). **F G**

*Boring, Alice Middleton, Ph. D., Assistant Professor of Zoology, University of Maine, Orono, Me. (61). 1913. **F**

*Boring, Edwin Garrigues, Morrill Hall, Ithaca, N. Y. (63). 1915. **H**

Boring, Mrs. Edwin Garrigues, 113 Glen Place, Ithaca, N. Y. (61). **H**

Born, Rudolph C., Forest Glen Road, Longmeadow, Mass. (60). **C**

Boskowitz, George W., M. D., 140 West 71st St., New York, N. Y. (57). **K**

Boss, Andrew, Chief, Division of Agriculture, University Farm, St. Paul, Minn. (62). **G**

Boswell, Foster Partridge, Ph. D., Professor of Psychology and Education, Hobart College, Geneva, N. Y. (62). **H L**

*Boswell, Maitland C., Chemical and Mining Building, University of Toronto, Toronto, Canada. (60). 1915. **C**

*Bosworth, Alfred W., N. Y. Agricultural Experiment Station, Geneva, N. Y. (65). 1915. **C**

Bothne, Gisle, Professor of Scandinavian Languages and Literature, University of Minneapolis, Minneapolis, Minn. (61). **L**

Boucek, Anthony J., M.D., 624 Chestnut St., N.S., Pittsburgh, Pa. (51). **K**

*Bouton, Charles Leonard, Ph. D., Associate Professor of Mathematics, Harvard University, Cambridge, Mass. (50). 1901. **A**

*Boutwell, John Mason, E. M., Howard Canfield Building, Santa Barbara, Cal. (46). 1905. **E**

*Bovaird, David, Jr., M. D., 156 Fifth Ave., New York, N. Y. (57). 1908. **K**

Bovard, John Freeman, Professor of Biology, University of Oregon, Eugene, Oregon. (58). **F**

Bovée, J. Wesley, M. D., The Rochambeau, Washington, D. C. (60). **K**

*Boving, Adam Giede, Ph. D., U. S. Dept. of Agriculture, Washington, D. C. (65). 1915. **F**

Bowden, A. O., Huron, S. D. (65). **H**

*Bowditch, Charles Pickering, 111 Devonshire St., Boston, Mass. (43). 1897. **H**

Bowen, Anna C. C., 210 East Main St., Batavia, N. Y. (66). **A F H**

*Bowen, Norman L., Geophysical Laboratory, Washington, D. C. (63). 1914. **E**

Bowes, Orlando Curtin, Columbia University, New York, N. Y. (64). **F**

Bowie, Alexander, E. M., Bowie, Colo. (58). **D**

*Bowie, William, C. E., U. S. Coast and Geodetic Survey, Washington, D. C. (57). 1907. **A D E**

Bowker, Charles H., M. D., The De Soto, Washington, D. C. (60). **K**

Bowker, Richard Rogers, 241 West 37th St., New York, N. Y. (43). **B D I L**

Bowker, Willard Lewis, C. E., Walpole, Mass. (60). **D**

Bowker, William H., 43 Chatham St., Boston, Mass. (60).

*Bowles, Oliver, U. S. Bureau of Mines, Washington, D.C. (61). 1911. **E**

Bowling, Alonzo Jesse, 3131 Wabash Ave., Chicago, Ill. (62).

Bowman, Howard H. M., Botanical Laboratory, University of Pennsylvania, Philadelphia, Pa. (65). **G**

Bowman, Jacob Neibert, Assistant Professor of European History, University of Washington, Seattle, Wash. (65).

Bowman, John Brady, Professor of Education, Mt. Union College, Alliance, Ohio. (62). **L**

Bowman, John Gabbert, Morrisville, Pa. (65).

Bowman, Paul Jay, R. R. 3, Middletown, Pa. (65). **F**

*Bownocker, John Adams, Sc. D., Professor of Inorganic Geology, Ohio State University, Columbus, Ohio. (48). 1905. **E**

Box, Cora May, 275 McGregor Ave., Cincinnati, Ohio. (63). **F**

Boyack, Breeze, Agricultural Experiment Station, Fort Collins, Colo. (64). **G**

Boyce, David C., M. D., 846 Western Ave., N. S., Pittsburgh, Pa. (60). **K**

Boyce, Ernest Walter, E. E., 218 93d St., Brooklyn, N. Y. (60). **D**

*Boyce, James, Chief Chemist, American Cotton Oil Co., 225 West 19th St., Chicago, Ill. (58). 1910. **C**

Boyce, John Shaw, U. S. Forest Service, San Francisco, Cal. (64). **G M**

Boyce, Mrs. Mary M., 858 Belden Ave., Chicago, Ill. (64).

*Boyd, James Ellsworth, Professor of Mechanics, Ohio State University, Columbus, Ohio. (46). 1899. **B D**

Boyd, William Edington, 702 19th St., N. W., Washington, D. C. (66). **G M**

*Boyden, Edward Allen, 17 Woodward St., Newton Highlands, Mass. (65). 1915. **F**

Boyer, Charles S., 6140 Columbia Ave., Philadelphia, Pa. (60). **A**

Boylston, Arthur Clarence, Mallinckrodt Chemical Works, St. Louis, Mo. (58). **C D**

Boynton, Dr. Charles E., 183 Rush St., Chicago, Ill. (60). **A K**

*Boynton, William Pingry, Ph. D., Professor of Physics, University of Oregon, Eugene, Ore. (60). 1910. **B**

Braam, Maximilian, Department of Biology, Hughes High School, Cincinnati, Ohio. (63). **F**

Brabec, Frank J., M. D., Perham, Minn. (60). **K**

Brace, Edith M., Eastern District High School, Brooklyn, N. Y. (54). **F G**

*Brace, Mrs. R. N., 223 East 17th St., New York, N. Y. (49). 1906. **H**

*Bracken, Henry Martyn, M. D., 1010 Fourth St. S. E., Minneapolis, Minn. (60). 1911. **K**

BRACKENRIDGE, GEORGE W., San Antonio, Tex. (41).

*Brackett, Byron Briggs, Ph. D., Professor of Electrical Engineering, South Dakota State College of A. and M. Arts, Brookings, S. D. (46). 1911. **B D**

*Brackett, Frank Parkhurst, Professor of Mathematics, Pomona College, Claremont, Cal. (50). 1906. **A**

Brackett, Mary M., 604 West 115th St., New York, N. Y. (54). **G**

*Brackett, Richard Newman, Ph. D., Clemson Agricultural College, Clemson College, S. C. (37). 1891. **C E**

Bradbury, Wymond H., 459 C St. N. W., Washington, D. C. (60). **C**

Bradford, Moses B. L., 60 Main St., Concord, Mass. (60).

*Bradley, Charles Schenck, 41 Park Row, New York, N. Y. (40). 1911. **B C D**

*Bradley, Harold Cornelius, Ph. D., 1811 Adams Ave., Madison, Wis. (60). 1911. **C F**

*Bradley, James Chester, Ph. D., Assistant Professor of Entomology, Cornell University, Ithaca, N. Y. (54). 1910. **F**

BRADLEY, M. J., 373 Fulton St., Brooklyn, N. Y. (43).

Bradley, Theodore J., Massachusetts College of Pharmacy, Boston, Mass. (60).

*Bradley, Walter Parke, Ph. D., 210 Waterman St., Providence, R. I. (50). 1906. **B C**

Bradshaw, John William, Ph. D., Assistant Professor of Mathematics, University of Michigan, Ann Arbor, Mich. (63). **A**

Bradt, Harlan Hurlbut, P. O. Box 20, Stanford University, Cal. (63). **E**

*Brady, William, Superintendent, Illinois Steel Works of Chicago, 7642 Marquette Ave., Chicago, Ill. (58). 1909. **C**

*Braga, Eduardo de A., Caixa Postal 1684, Rio de Janeiro, Brazil, S. A. (62). 1914. **D**

Braine, Bancroft Gherardi, M. E., 1186 Lexington Ave., New York, N. Y. (65). **D**

Brainerd, Erastus, Richmond Beach, Wash. (52). **H**

Braman, Winfred Waite, 200 West Beaver Ave., State College, Pennsylvania. (58). **C**

Bramwell, George Washington, 335 Broadway, New York, N. Y. (43). **D**

*Brandegee, Townshend S., Department of Botany, Hearst Mining Building, Berkeley, Cal. (65). 1915. **G M**

*Branner, John Casper, Ph. D., LL. D., President, Leland Stanford Junior University, Stanford University, Cal. (34). 1886. **E F**

*Brannon, J. Marshall, Biological Building, University of Wisconsin, Madison, Wis. (63). 1915. **G**

*Brannon, Melvin Amos, Ph. D., President University of Idaho, Moscow, Idaho. (55). 1909. **G**

Bransby, Carlos, 2636 Channing Way, Berkeley, Cal. (65).

*Branson, Edwin Boyer, Ph. D., Professor of Geology, University of Missouri, Columbia, Mo. (57). 1911. **E**

*Brasch, Frederick E., P. O. Box 1063, Stanford University, Cal. (62). 1915. **A**

*Brashear, John Alfred, Sc. D., LL. D., Allegheny, Pa. (33). 1885. **A B D**

Bratton, W. A., 570 Boyer Ave., Walla Walla, Wash. (65).

Braucher, Ralph Waldo, Kent, Ohio. (60). **F**

*Braun, Annette Frances, Ph. D., 2702 May St., Cincinnati, Ohio. (60). 1915. **F**

Braunnagel, Jules L. A., M. D., P. O. Box 925, San Antonio, Tex. (50). **H K**

*Bray, William Crowell, Ph. D., Chemical Laboratory, University of California, Berkeley, Cal. (60). 1910. **C**

*Bray, William L., Ph. D., 395 Bedford Park Boulevard, Bronx, New York, N. Y. (49). 1901. **G**

Breckenridge, John E., American Agricultural Chemical Co., Carteret, N. J. (60). **C**

Bredin, George S., R. F. D. 5, West Chester, Pa. (58).

*Breed, Frederick Stephen, Ph.D., Assistant Professor of Education, University of Michigan, Ann Arbor, Mich. (63). 1915. **L**

*Breed, Robert Stanley, Ph. D., New York Agricultural Experiment Station, Geneva, N. Y. (51). 1909. **E F**

*Breese, Burtis Burr, Ph. D., Professor of Psychology, University of Cincinnati, Cincinnati, Ohio. (54). 1910. **H L**

*Breidenbaugh, Edward S., Sc. D., Professor of Chemistry and Mineralogy, Pennsylvania College, Gettysburg, Pa. (57). 1909. **C**

Breitenbecher, Joseph Kumler, Ph. D., Adelbert College, Cleveland, Ohio. (65). **F**

Breithaupt, L. R., Harney Branch Agricultural Experiment Station, Burns, Oregon. (64). **G**

*Breitwieser, Joseph Valentine, Ph. D., Professor of Psychology and Education, Colorado College, Colorado Springs, Colo. (61). 1915. **H L**

*Bremer, John Lewis, M. D., Harvard Medical School, Boston, Mass. (58). 1911. **K**

*Breneman, Abram Adam, 97 Water St., New York, N. Y. (58). 1911. **C**

*Brenke, William Charles, Ph. D., Associate Professor of Mathematics, University of Nebraska, Lincoln, Nebr. (56). 1908. **A**

Brennan, Martin Stanislaus, D. D., Sc. D., 6304 Minnesota Ave., St. Louis, Mo. (58). **A**

Brereton, Thomas John, C. E., 124 5th Ave., Chambersburg, Pa. (58). **D**

*Bretnall, George Herbert, Head, Department of Biology, State Normal School, La Crosse, Wis. (58). 1911. **F G**

Brett, George Monroe, Hartley Hall, 115th St. and Amsterdam Ave., New York, N. Y. (54). **A D**

*Bretz, J. Harlen, Assistant Professor of Geology, University of Chicago, Chicago, Ill. (57). 1911. **E**

Brewer, Edward M., 40 Churchill's Lane, Milton, Mass. (60).

Brewster, Carl Milton, State College of Washington, Pullman, Wash. (62). **C L**

Brewster, Edwin Tenney, 11 Locke St., Andover, Mass. (51). **F G**

Brewster, Frank, Ames Building, Boston, Mass. (61). **H**

Brewster, Frank H., M. E., 180 Woodbridge Ave., Buffalo, N. Y. (51). **D**

*Bridge, Norman, M. D., 10 Chester Place, Los Angeles, Cal. (51). 1906. **H I K L**

*Bridwell, John Colburn, Government Nurseries, Honolulu, Hawaii. (65). 1915. **G M**

Briganti, P., M. D., 205 East 17th St., New York, N. Y. (58). **K**

Briggs, Charles H., 12 Old Colony Building, Minneapolis, Minn. (60). **C**

Briggs, Edward Cornelius, M. D., 129 Marlborough St., Boston, Mass. (50). **F K**

*Briggs, Lyman James, Ph. D., 3208 Newark St., Cleveland Park, Washington, D. C. (48). 1901. **B**

Briggs, Thomas H., Teachers College, Columbia University, New York, N. Y. (65). **L**

Briggs, Wallace Alvin, M. D., P. O. Box 667, Sacramento, Cal. (51). **K**

Briggs, William Ellery, 2209 M St., Sacramento, Cal. (66).

*Brigham, Albert Perry, Professor of Geology, Colgate University, Hamilton, N. Y. (41). 1900. **E**

*Brigham, William Tufts, Sc. D., Director, B. P. Bishop Museum of Polynesian Ethnology and Natural History, Honolulu, Hawaii. (54). 1909. **H**

Brill, Abraham Arden, M. D., 55 Central Park West, New York, N. Y. (65). **K**

*Brill, George Mackenzie, M. E., Consulting Engineer, 2534 Hillegas St., Berkeley, Cal. (51). 1906. **D**

*Brill, Nathan Edwin, M. D., 48 West 76th St., New York, N. Y. (54). 1911. **H K**

Briscoe, Charles Francis, Ph. D., Head, Department of Bacteriology, Mississippi Agricultural Experiment Station, Agricultural College, Miss. (63). **G**

Bristol, John I. D., 1 Madison Ave., New York, N. Y. (49).

*Bristol, William Henry, M. E., President, The Bristol Company, Waterbury, Conn. (36). 1894. **A B D**

Brittain, William H., Agricultural College, Truro, N. S., Canada. (63). **F G**

*Britton, Nathaniel Lord, Sc. D., Ph. D., New York Botanical Garden, Bronx Park, New York, N. Y. (29). 1882. **E G**

Britton, Wiley, 6 North Mill St., Kansas City, Kansas. (40). **F**

*Britton, Wilton Everett, Ph. D., State Entomologist, Connecticut Agricultural Experiment Station, New Haven, Conn. (54). 1906. **F**

Broadhead, Miss Annie Maple, R. F. D. No. 3, Olympia, Wash. (61).

*Broadhurst, Miss Jean, Assistant Professor of Biology, Teachers College, Columbia University, New York, N. Y. (54). 1911. **F G**

Broadrup, George L., M. D., 203 Virginia Ave., Cumberland, Md. (60). **K**

Brock, Henry M., S. J., Professor of Physics, Boston College, Boston, Mass. (57). **B E**

Brock, Luther S., M. D., Morgantown, W. Va. (61). **K**

*Brock, Reginald Walter, Ph. D., Geological Survey of Canada, Ottawa, Canada. (54). 1907. **E**

*Brode, Howard Stidham, Ph. D., Professor of Biology, Whitman College, Walla Walla, Wash. (62). 1915. **F**

Broman, Isidore J., State Mine Inspector, Capitol Station, Austin, Texas. (62). **D E**

Bromberg, Frederick George, Mobile, Ala. (60).

Bronson, Edward Bennett, M. D., 10 West 49th St., New York, N. Y. (49). **K**

*Bronson, Howard Logan, Ph. D., Professor of Physics, Dalhousie University, Halifax, Nova Scotia. (58). 1910. **B**

*Brooke, William Ellsworth, Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. (58). 1910. **A**

*Brookover, Charles, Ph. D., Medical Department, University of Arkansas, Little Rock, Ark. (55). 1915. **F**

*Brooks, Alfred Hulse, U. S. Geological Survey, Washington, D. C. (52). 1905. **E**

*Brooks, Charles, Ph. D., U. S. Department of Agriculture, Washington, D. C. (53). 1913. **G**

Brooks, Charles Franklin, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (64). **A M**

*Brooks, Clyde, Ph. D., Assistant Professor of Physiology and Pharmacology, University of Pittsburgh, Pittsburgh, Pa. (63). 1915. **K**

Brooks, Elisha, Ben Lomond, Cal. (65).

*Brooks, Fred Ernest, French Creek, W. Va. (58). 1913. **F**

*Brooks, Harlow, M. D., 44 West 9th St., New York, N. Y. (62). 1911. **K**

Brooks, Ira Sanford, Ottawa, Ill. (63). **G**

*Brooks, J. Ansel, Assistant Professor of Mechanical Drawing, Brown University, Providence, R. I. (54). 1915. **A B D**

Brooks, Miles Elijah, C. E., 19 Milford St., Boston, Mass. (61). **D**

Brooks, Paul P. B., Carlinville, Ill. (58). **A B C**

BROOKS, PETER C., 2 Deerfield St., Boston, Mass. (60). **G**

Brooks, William Penn, Ph. D., Director, Massachusetts Agricultural Experiment Station, Amherst, Mass. (38). **C F**

*Brooks, William Robert, Sc. D., Director, Smith Observatory, and Professor of Astronomy, Hobart College, Geneva, N. Y. (35). 1886. **A B D**

*Broomall, Henry L., 1302 Commonwealth Building, Philadelphia, Pa. (58). 1913. **H**

Broughton, Henry Primm, E. E., Crown Point, Ind. (60). **D**

Brousseau, Miss Kate, Mills College, Cal. (66).

Brown, Alexander G., Jr., M. D., 1135 West Franklin St., Richmond, Va. (60). **K**

*Brown, Amos Peaslee, E. M., Ph. D., Professor of Mineralogy and Geology, University of Pennsylvania, Philadelphia, Pa. (50). 1906. **E**

*Brown, Calvin Smith, Sc. D., Ph. D., Professor of Modern Languages, University of Mississippi, University, Miss. (54). 1911. **E F G**

*Brown, Charles Wilson, Associate Professor of Geology, Brown University, Providence, R. I. (54). 1909. E

Brown, Cony T., E. M., Socorro, New Mexico. (60). D

Brown, David Walter, Ph. D., 5 Beekman St., New York, N. Y. (55). D

*Brown, Edgar, Botanist in Charge of Seed Laboratory, U. S. Department of Agriculture, Washington, D. C. (52). 1911. G

*Brown, Edgar Dwight, M. D., Professor of Pharmacology, University of Minnesota, Minneapolis, Minn. (60). 1911. K

Brown, Elias G., M. D., Founder and Director, The Mountain School, Allaben, N. Y. (56). L

*Brown, Elmer Ellsworth, Ph. D., LL. D., Chancellor, New York University, New York, N. Y. (57). 1907. I L

Brown, Elmer M., M. D., Fidelity Block, Tacoma, Wash. (60). K

*Brown, Ernest B., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (65). 1915. G

*Brown, Ernest William, Sc. D., Professor of Mathematics, Yale University, New Haven, Conn. (53). 1906. A B

*Brown, Fay Cluff, Ph. D., 219 Reynolds St., Iowa City, Iowa. (55). 1911. B

Brown, Forest B. H., Department of Botany, Ohio State University, Columbus, Ohio. (64). G

Brown, Frederick M., 54 Wall St., New York, N. Y. (58).

Brown, Frederick Walworth, Civil Service Commission, Washington, D. C. (63). F

Brown, George A., 304 East Walnut St., Bloomington, Ill. (58). L

*Brown, George Lincoln, Ph. D., Professor of Mathematics, South Dakota State College, Brookings, S. D. (55). 1907. A

Brown, Gilbert L., Professor of Education and Psychology, Northern State Normal School, Marquette, Mich. (63). L

Brown, Glenn Vinton, Professor of Chemistry, Bucknell University, Lewisburg, Pa. (51). B C E

Brown, Harold Chapman, Ph. D., Assistant Professor of Philosophy, Leland Stanford Junior University, Stanford University, Cal. (60). H

*Brown, Harry Bates, Professor of Forestry, Mississippi A. and M. College, Agricultural College, Miss. (60). 1911. G M

Brown, Harry Philip, Ph. D., Assistant Professor of Forest Botany, N. Y. State College of Forestry, Syracuse, N. Y. (65). G M

Brown, Henry B., President, Valparaiso University, Valparaiso, Ind. (58). I L

Brown, J. W., Sylacauga, Ala. (65). G

Brown, James, Professor of Physics and Chemistry, Butler College, Indianapolis, Ind. (61). B C

Brown, Joseph Grant, 1013 Ramona St., Palo Alto, Cal. (62). B

*Brown, Joseph Stanford, Far View Farm, R. F. D. Box 38, Black Hall, Conn. (50). 1906. D

Brown, Julius Arthur, 80 Claremont Ave., New York, N. Y. (60). **B**

*Brown, Lawrason, M. D., 104 Main St., Saranac Lake, N. Y. (60). 1911. **K**

*Brown, Linwood Arnold, 425 Transylvania Park, Lexington, Ky. (60). 1911. **C**

*Brown, Lucius Polk, Food and Drug Commissioner of Tennessee, 312 6th Ave., North, Nashville, Tenn. (54). 1911. **C E**

Brown, Nellie A., U. S. Department of Agriculture, Washington, D. C. (60). **G**

Brown, Nelson Courtlandt, Professor of Forest Utilization, N. Y. State College of Forestry, Syracuse, N. Y. (65). **M**

Brown, Orville Harry, Ph. D., M. D., Missouri State Sanatorium for Incipient Tuberculosis, Mt. Vernon, Mo. (58). **K**

Brown, Percy Edgar, Ph. D., Professor of Soil Bacteriology, Iowa State College, Ames, Iowa. (66). **G**

*Brown, Robert Marshall, Rhode Island Normal School, Providence, R. I. (48). 1911. **E**

*Brown, Samuel Boardman, Professor of Geology, West Virginia University, Morgantown, W. Va. (40). 1911. **E**

*Brown, Stewardson, 20 East Penn St., Germantown, Philadelphia, Pa. (50). 1906. **G I**

*Brown, Thomas Clachar, Ph. D., Bryn Mawr College, Bryn Mawr, Pa. (57). 1914. **E**

Brown, Thomas R., Ph. D., M. D., 806 Equitable Building, Wilmington, Del. (61). **K**

Brown, W. Jesse, Richard City, Tenn. (58). **B C D E**

Brown, W. McCulloh, Bayard, W. Va. (60).

*Brown, Wade Hampton, M. D., Rockefeller Institute for Medical Research, New York, N. Y. (63). 1915. **K**

*Brown, Warner, Ph. D., Department of Psychology, University of California, Berkeley, Cal. (60). 1911. **H L**

Brown, William Adams, Ph. D., D. D., 600 West 122d St., New York, N. Y. (57). **I L**

*Brown, William George, Ph. D., Professor of Chemistry, University of Missouri, Columbia, Mo. (58). 1909. **C**

*Brown, William Henry, Bureau of Science, Manila, P. I. (60). 1915. **G**

Browne, Arthur Lee, P. O. Box 1630, Baltimore, Md. (56). **C**

Browne, Arthur S., 902 F St., N. W., Washington, D. C. (62).

*Browne, Arthur Wesley, Ph. D., Professor of Chemistry, Cornell University, Ithaca, N. Y. (57). 1908. **C**

*Browne, Charles Albert, Ph. D., 80 South St., New York, N. Y. (52). 1909. **C**

*Browne, Ethel Nicholson, Ph. D., University of California, Berkeley, Cal. (60). 1915. **F K**

Browne, William Robert, C. E., Bethany Beach, Delaware. (54). **D**

Browne, William Ward, Ph. D., College of the City of New York, New York, N. Y. (64). **F**

Brownell, Silas Brown, LL. D., 71 Wall St., New York, N. Y. (36).

Browning, Charles Clifton, M. D., 1227 Diamond Ave., S. Pasadena, Cal. (51). **K L**

BROWNING, J. HALL, 199 Chambers St., New York, N. Y. (57).

*Browning, Philip Embury, Ph. D., Assistant Professor of Chemistry, Yale University, New Haven, Conn. (46). 1903. **C**

*Browning, William, M. D., Professor of Diseases of the Mind and Nervous System, Long Island College Hospital, Brooklyn, N.Y. (53). 1906. **H K**

Bruce, Donald, Assistant Professor of Forestry, University of California, Berkeley, Cal. (64). **G M**

*Bruce, Robert E., Assistant Professor of Mathematics, Boston University, Boston, Mass. (60). 1915. **A**

Bruegel, A. Theodore, M. E., Hess-Bright Manufacturing Co., Front St. and Erie Ave., Philadelphia, Pa. (60). **D**

*Brues, Charles Thomas, Department of Economic Entomology, Bussey Institution, Forest Hills, Boston, Mass. (54). 1906. **F**

Bruggerhof, F. W., 53 Barclay St., New York, N. Y. (49).

*Brumback, Arthur Marion, Professor of Chemistry, Denison University, Granville, Ohio. (60). 1910. **C**

Brumbaugh, Gaius Marcus, M. D., 905 Massachusetts Ave., Washington, D. C. (60). **K**

*Bruner, Frank G., Ph. D., Associate Director, Department of Child Study, Board of Education, 806 Tribune Building, Chicago, Ill. (55). 1911. **H K**

*Bruner, Henry Lane, Ph. D., Professor of Zoology, Butler College, Indianapolis, Ind. (50). 1906. **F**

*Bruner, Lawrence, Professor of Entomology, University of Nebraska, Lincoln, Nebr. (50). 1901. **F**

Brunson, A. M., Agricultural Building, University of Illinois, Urbana, Ill. (66). **M**

*BRUNTON, DAVID WILLIAM, E. M., 730 Symes Building, Denver, Colo. (50). 1911. **D E**

*Brush, Charles Francis, Ph. D., LL. D., The Arcade, Cleveland, Ohio. (35). 1886. **B**

Bryan, Enoch Albert, LL. D., President, State College of Washington, Pullman, Wash. (54). **I**

Bryan, Mary Katherine, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (65). **G**

*Bryan, William Alanson, Professor of Zoology, College of Hawaii, Honolulu, Hawaii. (55). 1908. **F**

*Bryan, William Lowe, Ph. D., LL. D., President, Indiana University, Bloomington, Ind. (49). 1900. **H**

Bryant, Austin T., M. D., McKinney, Texas. (60). **K**

Bryant, DeWitt Clinton, M. D., P. O. Box 173, Claremont, Cal. (62). **K**

*Bryant, Dixie Lee, Ph. D., 4035 No. Kedvale Ave., Irving Park Station, Chicago, Ill. (42). 1915. **E**

Bryant, Edward Sohier, U. S. Forest Service, Washington, D. C. (56). **E**

*Bryant, Ernest Calvin, Professor of Physics and Mathematics, Middlebury College, Middlebury, Vermont. (60). 1910. A B

Bryant, Harold C., Museum of Vertebrate Zoology, University of California, Berkeley, Cal. (63). F

*BRYANT, HENRY GRIER, 2013 Walnut St., Philadelphia, Pa. (51). 1905. E

*BRYANT, OWEN, 3 Brimmer St., Boston, Mass. (54). 1906. F K

Bryant, R. C., Professor of Forestry, Yale Forest School, New Haven, Conn. (66). M

*Bryce, Rev. George, D. D., LL. D., President, Royal Society of Canada, Winnipeg, Manitoba, Canada. (38). 1889. H

Bubb, Henry, Ullenwood, near Cheltenham, England. (60).

Buchanan, Edward F., 128 East Crescent St., Marquette, Mich. (60). C

Buchanan, James Isaac, President, Pittsburgh Trust Co., Pittsburgh, Pa. (51). I

*Buchanan, Robert Earle, Ph. D., Professor of Bacteriology, Iowa State College, Ames, Iowa. (63). 1913. K

*Bucher, John Emery, Ph. D., Head, Department of Chemistry, Brown University, Providence, R. I. (54). 1908. C

*Buchner, Edward Franklin, Ph. D., Professor of Philosophy and Education, Johns Hopkins University, Baltimore, Md. (49). 1901. H L

*Buck, Alonzo Morris, M. E., Assistant Professor of Railway Electrical Engineering, University of Illinois, Urbana, Ill. (58). 1915. D

Buck, J. Etna, Alabama Polytechnic Institute, Auburn, Ala. (60). F

*Buck, Thomas, Ph. D., Department of Mathematics, University of California, Berkeley, Cal. (58). 1910. A

Buckingham, Burdette R., Ph. D., Chief Statistician, Department of Education, New York, N. Y. (60). L

*Budington, Robert Allyn, Associate Professor of Biology, Oberlin College, Oberlin, Ohio. (52). 1910. F K

*BUEHLER, DR. HENRY ANDREW, Director, Missouri Bureau of Geology and Mines, Rolla, Mo. (63). 1913. E

Buerger, Leo, M. D., 40 East 41st St., New York, N. Y. (65). K

*Buffum, Burt C., Worland, Wyo. (42). 1906. G

Bugbee, Alice Gates, M. D., 69 Hamilton Ave., White Plains, N. Y. (60). K

Buist, George Alexander, Professor of Chemistry and Geology, Furman University, Greenville, S. C. (65). C E

*Bull, Coates Preston, Associate Professor of Agronomy, College of Agriculture, University Farm, St. Paul, Minn. (52). 1911. G I L

Bullard, Herbert Hays, Ph. D., 2407 East Ashland Ave., Baltimore, Md. (64). K

*Bullard, Warren Gardner, Ph. D., Associate Professor of Mathematics, Syracuse University, Syracuse, N. Y. (50). 1906. A L

Bullene, Mrs. Emma F. Jay, 1409 Broadway, Denver, Colo. (50). H

Bullis, Abram Rogers, Macedon, N. Y. (58). A

Bullitt, James B., M. D., University of North Carolina, Chapel Hill, N. C.

Bullock, Edward Lippincott, 175 Church St., Hazleton, Pa. (65). (55). **H K**

Bump, Milan Raynard, E. E., Apartment 31, 15 Claremont Ave., New York, N. Y. (58). **D**

*Bumpus, Hermon Carey, Sc. D., Ph. D., LL. D., President, Tufts College, Tufts College, Mass. (49). 1900. **F L**

*Bumstead, Henry Andrews, Ph. D., Professor of Physics, Yale University, New Haven, Conn. (60). 1910. **B**

Bunker, Henry A., M. D., 158 6th Ave., Brooklyn, N. Y. (50). **I K**

*Bunting, Charles Henry, M. D., Professor of Pathology, University of Wisconsin, Madison, Wisconsin. (58). 1909. **K**

Bunting, Martha, Ph. D., The Newport, Spruce and 16th Sts., Philadelphia, Pa. (60). **F G H**

*Bunzel, Herbert Horace, Ph. D., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (60). 1911. **C G**

*Burbank, John Emerson, R. F. D. 1, Strong, Me. (57). 1909. **B**

*BURBANK, LUTHER, Sc. D., Santa Rosa, Cal. (50). 1901. **G**

*Burckhalter, Charles, Chabot Observatory, Oakland, Cal. (65). 1915. **A**

Burdick, Alfred Stephen, M. D., 2148 Giddings Ave., Chicago, Ill. (58). **K**

Burdick, Lewis Dayton, Oxford, N. Y. (52). **H I**

*Burger, William Henry, Assistant Professor of Civil Engineering, Northwestern University, Evanston, Ill. (62). 1915. **D**

*Burgess, Albert Franklin, Gipsy Moth Parasite Laboratory, Melrose Highlands, Mass. (54). 1906. **F**

*Burgess, Edward Sandford, Sc. D., Ph. D., Professor of Natural Science, New York City Normal College, New York, N. Y. (47). 1901. **E F G H**

*Burgess, George Kimball, Sc. D., Ph. D., Bureau of Standards, Washington, D. C. (55). 1907. **A B C**

*Burgess, Horace Thomas, University of Wisconsin, Madison, Wis. (63). 1915. **A**

*Burgess, Laurie Lorne, Ph. D., Professor of Analytical Chemistry, University of Saskatchewan, Saskatoon, Canada. (60). 1911. **C**

Burgess, Paul Steere, College of Agriculture, University of California, Berkeley, Cal. (64). **G**

*Burgess, Thomas J. W., M. D., Medical Superintendent, Protestant Hospital for the Insane, Montreal, Canada. (38). 1889. **E G H**

Burgin, Herman, M. D., 63 West Chelten Ave., Germantown, Pa. (66). **G**

Burk, W. E., 944 Woodward Ave., Detroit, Mich. (55). **C K**

Burke, C. E., Ph. D., Department of Chemistry, University of Vermont, Burlington, Vt. (65). **C**

Burke, Milo Darwin, C. E., 706 2d National Bank Building, Cincinnati, Ohio. (50). **A B C D E**

Burleigh, Charles B., E. E., 1 Oak Terrace, Malden, Mass. (58). **D**

Burley, Benjamin T., M. D., 25 High St., Worcester, Mass. (60). **K**

*Burling, Lancaster Demorest, Geological Survey of Canada, Ottawa, Canada. (60). 1915. **E**

*Burlingame, Leonas Lancelot, Ph. D., Stanford University, Cal. (58). 1915. **G**

Burlingame, William B., M. E., 18 Linden St., Exeter, N. H. (60). **D**

Burmeister, William Henry, M. D., 312 South Ashland Boulevard, Chicago, Ill. (65). **K**

Burnet, Wallace C., Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (60). **C**

*Burnett, Charles Theodore, Ph. D., Professor of Psychology, Bowdoin College, Brunswick, Me. (54). 1911. **F H I K**

Burnett, Frederick, 1337 King St., West, Toronto, Canada. (56). **D I**

*Burnett, Theodore Crété, M. D., University of California, Berkeley, Cal. (64). 1915. **K**

*Burnette, F. H., Professor of Horticulture, Louisiana State University, Baton Rouge, La. (54). 1906. **F G**

*Burnham, Ernest, Director, Rural School Department, Western State Normal School, Kalamazoo, Mich. (63). 1915. **L**

Burnham, George, Jr., C. E., Berwyn, Pa. (51). **D**

*Burnham, Stewart Henry, R. F. D. 2, Box 55, Hudson Falls, N. Y. (60). 1911. **G**

*Burnham, William Henry, Ph. D., Professor of Pedagogy, Clark University, Worcester, Mass. (58). 1910. **H L**

Burns, Eleanor Irene, Professor of Physics, American College for Girls, Constantinople, Turkey. (58). **B**

Burns, Elmer Ellsworth, Department of Physics and Chemistry, High School, Berwyn, Ill. (58). **B C**

*Burns, George Plumer, Ph. D., Professor of Botany, University of Vermont, Burlington, Vt. (58). 1909. **G**

Burns, Louisa, A. T. Still Research Institute, 122 South Ashland Boulevard, Chicago, Ill. (65).

Burr, H. M., 106 Lawn Ave., Middletown, Conn. (60). **C**

BURR, I. TUCKER, 53 State St., Boston, Mass. (60).

*Burr, William Hubert, C. E., Professor of Civil Engineering, Columbia University, New York, N. Y. (31). 1883. **D**

*Burr, William W., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (65). 1915. **E G**

Burrell, Ramon Haddock, M. D., Creighton, Nebr. (51). **K**

*Burrill, Thomas Jonathan, Ph. D., LL. D., Emeritus Professor of Botany, University of Illinois, Urbana, Ill. (53). 1905. **G**

Burrow, Trigant, M. D., Ph. D., Washington Apartment, Mt. Vernon Place, Baltimore, Md. **K**

*Burrows, George H., University of Vermont, Burlington, Vt. (60). 1914. **C**

*Burrows, Montrose Thomas, M. D., Associate Professor of Anatomy, Cornell Medical College, New York, N. Y. (63). 1915. **G K**

*Burt, Edward Angus, Ph. D., Missouri Botanical Garden, St. Louis, Mo. (50). 1901. **G**

Burt, Frederick Arthur, Professor of Biology, Juniata College, Huntington, Pa. (60). **F**

Burt, Silas Wright, C. E., 216 West 100th St., New York, N. Y. (57). **D E F**

*Burton, Alfred Edgar, C. E., Sc. D., Dean, Massachusetts Institute of Technology, Boston, Mass. (60). 1913. **D**

Burton, George Dexter, President, Electro-Chemical Fibre Co., 185 Summer St., Boston, Mass. (63). **C D**

*Burton, Hon. Theodore E., Cleveland Ohio. (52). 1905. **I**

*Burton-Opitz, Russell, M. D., Ph. D., Head, Department of Physiology, Columbia University, New York, N. Y. (52). 1905. **K**

Burwell, Albert L., P. O. Box 208, Winsted, Conn. (63).

*Busck, August, U. S. National Museum, Washington, D. C. (58). 1913. **F**

Bush, Prof. Egbert T., Stockton, N. J. (65). **L M**

Bush-Brown, Henry Kirke, 1729 G St., N. W., Washington, D. C. (64). **L**

*Bushnell, David I., Jr., University, Va. (51). 1903. **H**

Bushnell, George E., Fort Bayard, N. M. (60).

Bushnell, Leland D., Assistant Professor of Bacteriology, Kansas State Agricultural College, Manhattan, Kansas. (64). **G K**

Bussey, George D., 77 Somerset Ave., Winthrop, Mass. (60).

*Bussey, William Henry, Ph. D., Assistant Professor of Mathematics, University of Minnesota, Minneapolis, Minn. (58). 1909. **A**

Bustamante, Delfin Sanchez, 1016 Bartolome Mitre Adrogué, F. C. S., Argentina, S. A. (57). **G**

*Butler, Amos William, 52 Downey Ave., Irvington, Indianapolis, Ind. (30). 1885. **F H I**

*Butler, Bert S., U. S. Geological Survey, Washington, D. C. (57). 1911. **E**

*Butler, G. Montague, E. M., Oregon State Agricultural College, Corvallis, Oregon. (62). 1911. **D E**

Butler, Matthew Joseph, C. E., General Manager, Dominion Iron and Steel Co., Ltd., Sydney, N. S., Canada. (51). **A B D**

*Butler, O., Ph. D., New Hampshire College, Durham, N. H. (62). 1913. **G**

Butler, Paul, care U. S. Cartridge Co., Lowell, Mass. (57). **C**

Butler, William M., Yeatman High School, St. Louis, Mo. (58). **B**

Butler, William Mill, 456 Fort Washington Ave., New York, N. Y. (57).

*Butman, Chester A., 5748 Baum St., East Liberty Station, Pittsburgh, Pa. (63). 1915. **B**

Butsch, John Louis, M. D., Assistant Professor of Pharmacology, University of Buffalo, Buffalo, N. Y. (66). **K**

Butterbaugh, William Sherman, M. D., Atwood, Colo. (60). **K**

*Butterfield, Arthur Dexter, Professor of Mathematics, Worcester Polytechnic Institute, Worcester, Mass. (50). 1915. **A D**

*Butterfield, Kenyon Leech, LL. D., President, Massachusetts Agricultural College, Amherst, Mass. (60). 1910. **I L**

Butters, Charles H., 4132 Lyndale Ave., S., Minneapolis, Minn. (60). **C**

*Butters, Frederic King, Assistant Professor of Botany, University of Minnesota, Minneapolis, Minn. (58). 1911. **G**

Butters, Roy Morrill, 144C South Grant St., Denver, Colo. (60). **E**

Butterworth, Julian Edward, Ph. D., Professor of Secondary Education, University of Wyoming, Laramie, Wyo. (64). **L**

*Buttram, Frank, Oklahoma Geological Survey, Norman, Okla. (64). 1915. **E**

*Buwalda, John Peter, University of California, Berkeley, Cal. (65). 1915. **E G**

*Buxton, Bertram Henry, M. D., Professor of Experimental Medicine, Cornell University Medical College, New York, N. Y. (54). 1907. **F G K**

*Byars, Luther Parris, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (63). 1915. **G**

Bybee, Halbert Pleasants, University of Texas, Austin, Texas. (65). **E**

Bye, Mortimer, Wm. S. Merrell Chemical Co., Cincinnati, Ohio. (60). **C**

Byers, Edward A., Department of Science, Fayetteville High School, Fayetteville, Ark. (62).

*Byers, Horace Greeley, Ph. D., Professor of Chemistry, University of Washington, Seattle, Wash. (63). 1914. **C**

*Byrnes, Charles Metcalfe, M. D., Adjunct Professor of Anatomy, University of Virginia, Charlottesville, Va. (57). 1911. **K**

Byrnes, Clarence P., Frick Annex, Pittsburgh, Pa. (62).

Byrnes, Owen, E. M., Gould, Mont. (51). **D E**

Cadwalader, Williams Biddle, M. D., 1710 Locust St., Philadelphia, Pa. (65). **K**

Cady, Gilbert Haven, 7415 Parnell Ave., Chicago, Ill. (63). **E**

*Cady, Hamilton Perkins, Ph. D., Professor of Chemistry, University of Kansas, Lawrence, Kans. (52). 1906. **B C**

*Cady, Walter B., Rio Piedras, Porto Rico. (56). 1915. **C**

*Cady, Walter Guyton, Ph. D., Professor of Physics, Wesleyan University, Middletown, Conn. (49). 1906. **B**

Cady, William Hamlin, Chemist, 127 Power St., Providence, R. I. (57). **C**

Cahn, Alvin R., Biology Building, University of Wisconsin, Madison, Wis. (65). **F**

*Cain, William, Professor of Mathematics, University of North Carolina, Chapel Hill, N. C. (50). 1901. A D

Caine, William Phillips, M. E., P. O. Box 27, Ensley, Ala. (60). D

Caird, James Morton, C. E., 271 River St., Troy, N. Y. (60). D

Cairnes, DeLorme Donaldson, Ph. D., M. E., Geological Survey of Canada, Ottawa, Canada. (66). E

*Cajori, Florian, Ph. D., LL. D., Professor of Mathematics, Colorado College, Colorado Springs, Colo. (50). 1901. A

Calatroni, Ricardo, Professor of Biology, Colegio Nacional, La Plata, Argentina, S. A. (64). F

*Caldwell, Benjamin Palmer, Ph. D., Associate Professor of Chemistry, Tulane University, New Orleans, La. (55). 1909. C

Caldwell, Charles Peter, M. D., 4429 Michigan Ave., Chicago, Ill. (60). K

*Caldwell, Joseph Stuart, Professor of Botany, Alabama Polytechnic Institute, Auburn, Ala. (60). 1911. G

*Caldwell, Otis William, Ph. D., Professor of Botany, University of Chicago, Chicago, Ill. (49). 1902. G L

Caldwell, Wallace L., 1025½ North 24th St., Birmingham, Ala. (64).

Calef, J. Francis, M. D., 171 Broad St., Middletown, Conn. (60). K

*Calhoun, Fred H. H., Ph. D., Professor of Geology and Mineralogy, Clemson Agricultural College, Clemson College, S. C. (54). 1911. E

*Calkins, Gary Nathan, Ph. D., Professor of Protozoology, Columbia University, New York, N. Y. (49). 1901. F

Calkins, Marshall, M. D., 14 Maple St., Springfield, Mass. (29). K

Calkins, R. D., Mt. Pleasant, Mich. (60). E

Call, Henry Lawrens, P. O. Box 1260, Boston, Mass. (57).

Call, Leland E., Professor of Soils, Kansas State Agricultural College, Manhattan, Kansas. (66). M

Callen, Alfred Copeland, E. M., 940 High St., Pottstown, Pa. (61). B D

Calm, Charles Emil, Ph. D., care California Club, Los Angeles, Cal. (56). C E

*Calvert, Philip Powell, Ph. D., Professor of Zoology, University of Pennsylvania, Philadelphia, Pa. (50). 1903. F

*Calvert, Sidney, Ph. D., LL. D., Professor of Organic Chemistry, University of Missouri, Columbia, Mo. (47). 1903. C

Calvin, Mrs. Henrietta W., Dean of Home Economics, Oregon State Agricultural College, Corvallis, Oregon. (65). I L

*Cameron, Frank Kenneth, Ph. D., Bureau of Soils, U. S. Department of Agriculture, Washington, D. C. (49). 1901. B C

Cameron, Prof. John E., 409 West 9th St., Maryville, Mo. (54). F G

Cameron, Norman W., Ph. D., Professor of Education, Western State Normal School, Kalamazoo, Mich. (65). L

Cameron, Walter S., 239 West 136th St., New York, N. Y. (58). B C F G

Camp, Frederick A., Waldo Avenue and 244th St., New York, N. Y. (57). E

Camp, Joseph Parker, 2017 I St. N. W., Washington, D. C. (58). H

*Campbell, Douglas Houghton, Ph. D., Professor of Botany, Leland Stanford Junior University, Stanford University, Cal. (34). 1888. **G**

*Campbell, George Ashley, Ph. D., 15 Dey St., New York, N. Y. (63). 1913. **D**

*Campbell, Henry Donald, Sc. D., Ph. D., Professor of Geology and Biology, Washington and Lee University, Lexington, Va. (52). 1905. **E F G**

Campbell, Jessie R., 541 West Ave., Rochester, N. Y. (60). **A**

Campbell, John A., St. James Hotel, Philadelphia, Pa. (65).

*Campbell, John Pendleton, Ph. D., Professor of Biology, University of Georgia, Athens, Ga. (60). 1913. **F K**

*Campbell, Leslie Lyle, Ph. D., Head, Department of Physics, Simmons College, Boston, Mass, (48). 1910. **B**

*Campbell, Marius Robison, U. S. Geological Survey, Washington, D. C. (52). 1905. **E**

Campbell, Robert A., P. O. Box 441, Fullerton, Nebr. (61). **G**

*Campbell, William Francis, M. D., 394 Clinton Ave., Brooklyn, N. Y. (57). 1911. **K**

Campbell, William Mullan, President, American Savings Bank, New York, N. Y. (57). **B**

*CAMPBELL, WILLIAM WALLACE, Sc.D., LL.D., Director, Lick Observatory, Mt. Hamilton, Cal. (50). 1901. **A**

Canavan, Myrtelle M., M. D., 74 Fenwood Road, Boston, Mass. (65). **K**

Canfield, George Folger, 49 Wall St., New York, N. Y. (57).

Canis, Edward N., 2221 Park Ave., Indianapolis, Ind. (64).

Canniff, William Henry, 710 Hickox Building, Cleveland, Ohio. (63).

Cannon, Annie Jump, Harvard College Observatory, Cambridge, Mass. (65). **A**

Cannon, Arthur M., Holladay School, Portland, Oregon. (65).

*Cannon, George Lyman, 1914 Pennsylvania St., Denver, Colo. (39). 1901. **E**

*Cannon, Walter Bradford, M. D., Professor of Physiology, Harvard Medical School, Boston, Mass. (54). 1906. **K**

*Cannon, William Austin, Ph. D., Desert Botanical Laboratory, Tucson, Ariz. (52). 1905. **G**

*Canter, Hall, Ph. D., Professor of Chemistry, Randolph-Macon College, Ashland, Va. (54). 1909. **C**

Cantley, Thomas, E. M., General Manager, U. S. Steel and Coal Co., Ltd., New Glasgow, N. S., Canada. (60). **D**

Caparo, José Angel, Professor of Physics and Electrical Engineering, University of Notre Dame, Notre Dame, Ind. (62). **B D**

Caplin, Jessie, 2748 Hennepin Ave., Minneapolis, Miss. (60). **A**

CAPP, SETH BUNKER, P. O. Box 2054, Philadelphia, Pa. (66). **I L**

*Capps, Joseph A., M. D., 2532 Prairie Ave., Chicago, Ill. (58). 1909. **K**

*Cardiff, Ira D., Ph. D., Professor of Plant Physiology, State College of Washington, Pullman, Wash. (58). 1911. **G**

Cardon, Philip Vincent, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (63). **G**

Carel, Hubert Charles, Professor of Chemistry, University of Minnesota, Minneapolis, Minn. (62). **C**

Carey, Eben J., Creighton Medical College, Omaha, Nebr. (66). **K**

*Carhart, Henry Smith, Sc. D., LL. D., 277 North El Molino Ave., Pasadena, Cal. (29). 1881. **B**

Carhart, Paul Worthington, care G. & C. Merriam Co., Springfield, Mass. (56). **B**

*Carleton, Mark Alfred, U. S. Department of Agriculture, Washington, D. C. (42). 1894. **E G**

Carlitz, Joseph S., 159 North Second St., Philadelphia, Pa. (60). **C**

Carlsmith, Carl S., Hilo, Hawaii. (65).

*Carlson, Anton Julius, Ph. D., Professor of Physiology, University of Chicago, Chicago, Ill. (52). 1906. **K**

Carlyle, Elmer C., College Station, Texas. (58). **C E**

Carlyle, William Levi, Stillwater, Okla. (64). **G**

*Carman, Albert Pruden, Sc. D., Professor of Physics, University of Illinois, Urbana, Ill. (58). 1910. **B**

Carman, Albro R., M. D., 27 West 127th St., New York, N. Y. (60). **K**

*Carman, J. Ernest, Ph. D., University of Cincinnati, Cincinnati, Ohio. (63). 1915. **E**

*Carmichael, Robert Daniel, 5535 University Ave., Chicago, Ill. (57). 1908. **A**

Carmody, T. E., M. D., 1427 Stout St., Denver, Colo. (60). **K**

Carnegie, Thomas Morrison, Fernandina, Fla. (50). **F**

*Carney, Frank, Ph. D., Professor of Geology, Denison University, Granville, Ohio. (58). 1910. **E**

Carothers, Estella Eleanor, Department of Zoology, University of Pennsylvania, Philadelphia, Pa. (64). **F**

Carpenter, C. W., 1436 R St., N. W., Washington, D. C. (63). **G**

Carpenter, Rev. Charles Knapp, 311 Park St., Elgin, Ill. (55). **F**

Carpenter, Charles U., President, Herring-Hall-Marvin Safe Co., 400 Broadway, New York, N. Y. (60). **D**

Carpenter, Clifford D., Assistant Professor of Chemistry, Teachers College, Columbia University, New York, N. Y. (65).

Carpenter, Delma Rae, Professor of Mathematics, Roanoke College, Salem, Va. (63). **A**

*Carpenter, Ford Ashman, LL. D., U. S. Weather Bureau, Los Angeles, Cal. (44). 1910. **B D E L**

Carpenter, Frances Ann, M. D., The Belleview-Manchester, Baltimore, Md. (54). **K**

*Carpenter, Frank Berton, Chief Chemist, Virginia-Carolina Chemical Co., Richmond, Va. (60). 1911. **C**

Carpenter, Frank George, 1223 Connecticut Ave., Washington, D. C. (62).

*Carpenter, Frederic Walton, Ph. D., Professor of Biology, Trinity College, Hartford, Conn. (58). 1909. F

Carpenter, Leonard, R. F. D. 3, Medford, Oregon. (57).

*Carpenter, Louis George, C. E., 1455 Gilpin St., Denver, Colo. (32). 1889. D

Carpenter, Thorne Martin, Nutrition Laboratory, Carnegie Institution, Boston, Mass. (63). C

Carpenter, William B., 36 Prince St., Jamaica Plain, Boston, Mass. (58). A L

*Carr, William Kearny, 1413 K St. N. W., Washington, D. C. (52). 1915. B I

Carrier, Aubrey D., Mechanicsville, N. Y. (60). C

Carrier, Lyman, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (66). M

Carroll, Anna Laurie, Department of Physics, State Normal School, Plattsburg, N. Y. (57). B

Carroll, John S., care German Kali Works, 1212 Empire Building, Atlanta, Ga. (62). C

Carroll, Robert S., M. D., Medical Director, Highland Hospital, Asheville, N. C. (65). K

Carroll, William Ernest, Associate Professor of Animal Husbandry, Agricultural College of Utah, Logan, Utah. (64). F

Carruth, John G., Bellevue-Stratford Hotel, Philadelphia, Pa. (54). D

Carson, A. Courtenay, 811 Sumter St., Columbia, S. C. (65).

Carson, Charles M., University of New Brunswick, Fredericton, N. B., Canada. (60). C

Carson, Luella Clay, 23d and Hoyt Sts., Portland, Oreg. (66).

Carstens, J. Henry, M. D., Detroit, Mich. (58). K

Carswell, Nathaniel Taylor, Macon, Ga. (64). K

Carswell, Robert E., E. E., 14th Ave. S. E., and Winter St., Minneapolis, Minn. (64). D

*Carter, Benjamin Edward, Assistant Professor of Mathematics, Colby College, Waterville, Me. (58). 1909. A

Carter, Bernard M., General Chemical Co. of California, Bay Point, Cal. (60). C

Carter, Charles, Parsons College, Fairfield, Iowa. (60). A

Carter, Charles Willard, M. D., Clinton, Ill. (60). K

Carter, Curtis C., Chapin, Ill. (61). A

Carter, E. E., Professor of Forestry, Harvard Forest School, Petersham, Mass. (66). M

*Carter, Edna, Ph. D., Vassar College, Poughkeepsie, N. Y. (60). 1915. B

Carter, Edward Perkins, M. D., Rainbow Lake, N. Y. (60). K

*Carter, James Madison G., M. D., Sc. D., Ph. D., 1309 North Hobart Boulevard, Los Angeles, Cal. (59). 1895. F

Carter, John E., 5356 Knox St., Germantown, Pa. (38). B H

Carter, Robert A., 4 Irving Place, New York, N. Y. (58).

Carty, John Joseph, E. E., American Telephone and Telegraph Co., 15 Dey St., New York, N. Y. (54). B

*Carus, Paul, Ph. D., Editor, Open Court Publishing Co., La Salle, Ill. (50). 1895. H

Carver, Gail Luke, Professor of Biology, Mercer University, Macon, Ga. (62). F

Cary, Eben J., Creighton Medical College, Omaha, Nebr. (66). K

*Cary, Lewis Robinson, Ph. D., Guyot Hall, Princeton, N. J. (63). 1915. F

Case, Clarence E., M. D., Park and Center Sts., Ashtabula, Ohio. (60). K

*Case, Ermine Cowles, Ph. D., Professor of Historical Geology and Paleontology, University of Michigan, Ann Arbor, Mich. (50). 1906. B C E

Case, Willard Erastus, Auburn, N. Y. (57). B

*Casey, Thomas Lincoln, Colonel, Corps of Engineers, U. S. A., Stoneleigh Court, Washington, D. C. (38). 1892. D F

Caspari, Charles Edward, Ph. D., Professor of Chemistry, St. Louis College of Pharmacy, St. Louis, Mo. (63). C

*Castle, William Ernest, Ph. D., LL. D., Professor of Zoology, Harvard University, New Haven, Conn. (52). 1903. F

Caswell, Albert Edward, Ph. D., University of Oregon, Eugene, Oregon. (63). B

*Catlin, Charles Albert, Sc. D., 133 Hope St., Providence, R. I. (33). 1895. C

Catlin, Guy H., Science Master, Cathedral School of St. Paul, Garden City, Long Island, N. Y. (60). A

*CATTELL, JAMES MCKEEN, Ph. D., LL. D., Professor of Psychology, Columbia University, New York, N. Y. (44). 1896. B F H I L

Cattell, McKeen, Garrison, N. Y. (66).

*Caudell, Andrew Nelson, U. S. National Museum, Washington, D. C. (60). 1913. F

Cazin, Adele, 11 Elston Road, Upper Montclair, N. J. (60). B

Cederberg, Prof. William Emanuel, 3906 7th Ave., Rock Island, Ill. (60). A

Cebrian, John C., 1801 Octavia St., San Francisco, Cal. (65).

Center, O. D., Boise, Idaho. (65). M

Cerna, David, M. D., Ph. D., Mayor, Monclova, Coahuila, Mexico. (51). K

*Chace, Arnold Buffum, Sc. D., 324 Angell St., Providence, R. I. (60). 1911. A

Chadbourn, Erlon R., Melrose, Mass. (29).

Chadbourne, Arthur P., M. D., Peterboro, N. H. (58). **K**

Chaddock, Robert E., Professor of Political Science, Columbia University, New York, N. Y. (66). **I**

*Chadwick, George Halcott, Department of Geology, University of Rochester, Rochester, N. Y. (54). 1909. **E F**

Chaffee, Reginald R., Pennsylvania State College, State College, Pa. (63). **M**

*Chamberlain, Charles Joseph, Ph. D., Professor of Botany, University of Chicago, Chicago, Ill. (50). 1902. **G**

Chamberlain, Charles T., Jr., M. D., 306 Franklin St., Natchez, Miss. (60). **K**

*Chamberlain, Clark Wells, Ph. D., President, Denison University, Granville, Ohio. (53). 1907. **B**

Chamberlain, Edward Blanchard, 416 West 118th St., New York, N. Y. (57). **F G**

Chamberlain, George E., M. E., 1811 Heyworth Building, Chicago, Ill. (60). **D**

*Chamberlain, Joseph Scudder, Ph. D., Professor of Agricultural Chemistry, Massachusetts Agricultural College, Amherst, Mass. (58). 1910. **C**

Chamberlain, Philip William, C. E., Guapiles, Costa Rica, C. A. (60). **D**

Chamberlin, Miss Carrie B., Fisk University, Nashville, Tenn. (65).

*Chamberlin, Ralph Vary, Ph. D., Museum of Comparative Zoology, Harvard University, Cambridge, Mass. (58). 1910. **F**

*Chamberlin, Rollin Thomas, Ph. D., Assistant Professor of Geology, University of Chicago, Chicago, Ill. (50). 1909. **C E**

*Chamberlin, Thomas Chrowder, Sc. D., Ph. D., LL. D., Head, Department of Geology, University of Chicago, Chicago, Ill. (21). 1877. **B E F H**

Chambers, Frank R., 842 Broadway, New York, N. Y. (50).

Chambers, Franklin Smith, M. E., New Lisbon, N. J. (65). **D**

*Chambers, George Gailey, Ph. D., Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. (58). 1915. **A D L**

Chambers, Harry L., M. D., Lawrence, Kans. (57). **K**

Chambers, Mary Davoren, Rockford College, Rockford, Ill. (60).

*Chambers, Robert, Jr., Ph. D., 345 Thrall Ave., Cincinnati, Ohio. (63). 1915. **F**

*Chambers, Will Grant, Professor of Education, University of Pittsburgh, Pittsburgh, Pa. (52). 1913. **H L**

*Chambliss, Charles Edward, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (51). 1906. **F G**

*Chambliss, Hardee, Ph. D., Professor of Chemistry, Oklahoma A. and M. College, Stillwater, Okla. (55). 1910. **C**

Champion, Charles Sumner, 2 Rector St., New York, N. Y. (64).

Champlin, Manley, South Dakota Agricultural Experiment Station, Brookings, S. D. (66). **M**

*Chandler, Charles Frederick, M. D., Sc. D., Ph. D., LL. D., Professor of Chemistry, Columbia University, New York, N. Y. (19). 1875. **C**

*Chandler, Elwyn Francis, Professor of Civil Engineering, University of North Dakota, University, N. D. (50). 1909. **A D**

Chandler, Miss Eva, 55 Stone Hall, Wellesley College, Wellesley, Mass. (61). **L**

*Chandler, William H., Professor of Pomology, New York State College of Agriculture, Ithaca, N. Y. (64). 1915. **G**

Chaney, Lucian West, Department of Labor, Washington, D. C. (45). **F**

*Chant, Clarence Augustus, Ph. D., Associate Professor of Astrophysics, University of Toronto, Toronto, Canada. (54). 1906. **A B**

Chapin, Mrs. Charles A., 1200 Lake Shore Drive, Chicago, Ill. (65).

Chapin, Charles Value, M. D., Sc. D., 84 Keene St., Providence, R. I. (60). **I K**

Chapman, Evan A., Randolph, Nebr. (61). **C F**

Chapman, George Andrew, M. D., 23 Elm St., Glens Falls, N. Y. (60). **K**

Chapman, George Henry, Massachusetts Agricultural Experiment Station, Amherst, Mass. (61) **G**

Chapman, James E., E. M., Hidalgo, Bonanza, Zacatecas, Mexico. (60). **D**

Chapman, James W., Bussey Institution, Forest Hills, Boston, Mass. (65).

Chapman, Miss Mary, 98 Calhoun St., Springfield, Mass. (58). **C G**

*Chapman, Robert Hollister, 2029 Q St., Washington, D. C. (52). 1911. **E**

Chappel, H. G., D. D. S., 630 El Dorado Ave., Oakland, Cal. (55). **H K**

Chappelear, George W., Jr., Miller School, Va. (65). **G**

Chappell, M. L., 1837 Parker St., Berkeley, Cal. (65).

*Charavay, Marius A., Assistant Professor of Engineering, Stevens Institute of Technology, Hoboken, N. J. (64). 1915. **D**

Chard, Walter Goodman, Meadowood Farms, Cazenovia, N. Y. (66). **F G M**

Charles, Grace Miriam, 1231 Louisiana St., Lawrence, Kans. (62).

Charles, Rollin Landis, Department of Physics, Lehigh University, South Bethlehem, Pa. (58). **A B**

*Charles, Miss Vera K., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (57). 1915. **G**

*Charlton, Orlando Clarke, Dallas High School, Dallas, Tex. (51). 1911. **E F G**

*Chase, Mrs. Agnes, U. S. Department of Agriculture, Washington, D. C. (54). 1911. **G**

*Chase, Frederick Lincoln, Ph. D., Director, Yale University Observatory, New Haven, Conn. (43). 1896. **A**

Chase, Frederick S., 165 Grove St., Waterbury, Conn. (60).

Chase, George Colby, D. D., LL. D., President, and Professor of Psychology and Logic, Bates College, Lewiston, Me. (54). **H I L**

Chase, Harry Gray, Professor of Physics, Tufts College, Tufts College, Mass. (52). **B**

Chase, Ira Carleton, M. D., Western National Bank Building, Fort Worth, Texas. (52). **K**

*Chase, March F., Mineral Point Zinc Co., 1111 Marquette Building, Chicago, Ill. (56). 1909. B C

*Chatburn, George Richard, Professor of Applied Mechanics, University of Nebraska, Lincoln, Nebr. (58). 1911. A D

Chauncey, Elihu, 208 Madison Ave., New York, N. Y. (57).

*Chauvenet, William Marc, B. M., 620 Chestnut St., St. Louis, Mo. (50). 1901. C D

*Cheesman, Timothy Matlack, M. D., Garrison, N. Y. (50). 1901. K L

Cheever, Clarence Alonzo, M. D., 1531 Blue Hill Ave., Mattapan, Boston, Mass. (53). G K

Cheney, Newel, R. F. D. 74, Kennedy, N. Y. (52). E G

Cheney, Walter L., M. E., Meriden, Conn. (60). D

*Chesnut, Victor King, P. O. Box 254, Hyattsville, Md. (54). 1909. C G

Chester, Wayland Morgan, Professor of Biology, Colgate University, Hamilton, N. Y. (50). F G

Chester, Webster, Professor of Biology, Colby College, Waterville, Me. (57). F

Chidester, Floyd Earle, Ph. D., Rutgers College, New Brunswick, N. J. (66). F

Chien, Sung Shu, Botany Building, University of Chicago, Chicago, Ill. (65). G

*Chilcott, Ellery Channing, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (50). 1911. E

*Child, Charles Manning, Ph. D., Associate Professor of Zoology, University of Chicago, Chicago, Ill. (50). 1901. F

Childs, John Lewis, Floral Park, N. Y. (57). E F G M

Childs, Leroy, Corvallis, Oregon. (65).

Chippendale, Arthur, E. M., La Mutua 418, Mexico, D. F., Mexico. (60). D

Chisholm, A. S., Station H, Cleveland, Ohio. (63).

Chisolm, George E., 290 South St., Morristown, N. J. (50).

*Chittenden, Frank Hurlbut, Sc. D., Ph. D., U. S. Department of Agriculture, Washington, D. C. (48). 1901. F

*Chittenden, Jonathan Brace, Ph. D., Professor of Mathematics, Polytechnic Institute, Brooklyn, N. Y. (53). 1906. A

*Chittenden, Russell Henry, Sc. D., Ph. D., LL. D., Director, Sheffield Scientific School, Yale University, New Haven, Conn. (50). 1901. K

*Chivers, Arthur Houston, Professor of Botany, Dartmouth College, Hanover, N. H. (57). 1911. E G

Chowning, William M., M. D., 701 Donaldson Building, Minneapolis, Minn. (60). K

*Christian, Henry Asbury, M. D., Peter Bent Brigham Hospital, Boston, Mass. (60). 1911. K

Christiansen, C. Rushmer, M. D., University of California, Berkeley, Cal. (65). K

Christianson, Andrew, M. E., 198 West Pearl St., Butler, Pa. (58). D

Christie, E. W., M. E., Sewaren, N. J. (58). **D**

*Christie, Emerson Brewer, Bureau of Science, Manila, P. I. (61). 1915. **H**

*Christie, James, M. E., 100 Rochelle Ave., Wissahickon, Philadelphia, Pa. (33). 1894. **D**

*Chrysler, Mintin Asbury, Ph. D., Head, Department of Biology, University of Maine, Orono, Me. (57). 1909. **G**

Church, Arthur Latham, M. E., 500 North Broad St., Philadelphia, Pa. (54). **D**

Church, Melville, 1608 20th St., Washington, D. C. (63). **I**

*Churchill, William, Ph. D., Corning Glass Works, Corning, N. Y. (52). 1905. **H**

Churchward, Alexander, care Gray and Davis, Inc., Fenway Station, Boston, Mass. (52). **D**

*Chute, Horatio Nelson, Department of Physics, Ann Arbor High School, Ann Arbor, Mich. (34). 1889. **A B C**

Claassen, Peter W., Assistant State Entomologist, University of Kansas, Lawrence, Kans. (65). **F**

Claflin, Albert W., 190 Waterman St., Providence, R. I. (60). **C**

Clapp, Albert L., 552 Washington St., Braintree, Mass. (63).

Clapp, Charles H., University of Arizona, Tucson, Arizona. (60).

*Clapp, Cornelia Maria, Ph. D., Professor of Zoology, Mt. Holyoke College, South Hadley, Mass. (31). 1883. **F**

Clapp, Eugene Howard, 49 Federal St., Boston, Mass. (60). **C**

*Clapp, Frederick Gardner, E. M., 331 4th Ave., Pittsburgh, Pa. (51). 1906. **E**

Clapp, Gordon Adams, Department of Zoology, Oberlin College, Oberlin, Ohio. (63). **F K**

Clark, A. Wayne, care Johnson and Johnson, New Brunswick, N. J. (54). **C**

Clark, Anna M., 400 West 118th St., New York, N. Y. (20). **H**

*Clark, Arthur Lewis, Ph. D., 200 Albert St., Kingston, Ontario, Canada. (58). 1911. **B D**

*Clark, Austin Hobart, Smithsonian Institution, Washington, D. C. (52). 1906. **E F**

Clark, B. L., Bacon Hall, University of California, Berkeley, Cal. (65).

*Clark, Bertha May, Ph. D., Director of Science, William Penn High School, Philadelphia, Pa. (52). 1911. **B**

Clark, Burton W., 510 Euclid Ave., Syracuse, N. Y. (58). **C E**

Clark, Charles Frederick, Ph. D., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (60). **G**

Clark, Clarence M., P. O. Box 18, Chattanooga, Tenn. (58). **C**

Clark, Clarence Munroe, 321 Chestnut St., Philadelphia, Pa. (54). **I**

*Clark, Ernest D., Ph. D., U. S. Research Laboratory, 1833 Chestnut St., Philadelphia, Pa. (60). 1915. **C**

*Clark, Friend Ebenezer, Ph. D., Professor of Chemistry, West Virginia University, Morgantown, W. Va. (51). 1909. **C**

Clark, George H., Department of Agriculture, Ottawa, Canada. (61). **G**

Clark, Harriet Bailey, M. D., The Stuyvesant, 180 Washington Ave., Albany, N. Y. (60). **K**

Clark, Herbert A., Associate Professor of Physics, Syracuse University, Syracuse, N. Y. (50). **B C**

*Clark, Howard Walton, Bureau of Fisheries, U. S. Biological Station, Fairport, Iowa. (52). 1906. **F G**

*Clark, Hubert Lyman, Ph. D., Museum of Comparative Zoology, Cambridge, Mass. (50). 1903. **F**

*Clark, John Dustin, Associate Professor of Chemistry, University of New Mexico, Albuquerque, New Mexico. (60). 1911. **C**

*Clark, John Emory, 34 South Park Terrace, Long Meadow, Mass. (17). 1875. **A**

Clark, John Jesse, Manager, Text-Book Department, International Text-Book Co., Scranton, Pa. (50). **B D**

*Clark, Judson Freeman, Ph. D., 1164 Pacific St., Vancouver, B. C., Canada. (52). 1905. **G**

Clark, Leonard B., M. D., 36 Sycamore St., Waverly, Mass. (60). **K**

Clark, Miss Lois, P. O. Box 543, Burlington, Wash. (65).

Clark, M. A., M. D., 805–6 Georgia Life Building, Macon, Ga. (58). **K**

*Clark, Myron Henry, 1790 Broadway, New York, N. Y. (59). 1911. **C D**

Clark, Paul Franklin, Ph. D., 2006 Monroe St., Madison, Wis. (61). **K**

*Clark, Robert Watson, University of Michigan, Ann Arbor, Mich. (61). 1911. **E**

Clark, Thomas H., Ph. D., 34 Lancaster St., Worcester, Mass. (40). **C L**

Clark, Walter Gordon, E. E., 149 Broadway, New York, N. Y. (57). **B C D**

*Clark, William Bullock, Ph. D., LL. D., Professor of Geology, Johns Hopkins University, Baltimore, Md. (37). 1891. **E**

*Clark, William Mansfield, Ph. D., U. S. Department of Agriculture, Washington, D. C. (62). 1914. **C**

*Clarke, Miss Cora Huidekoper, 91 Mt. Vernon St., Boston, Mass. (47). 1910. **F G**

*Clarke, Frank Wigglesworth, Sc. D., LL. D., U. S. Geological Survey, Washington, D. C. (18). 1874. **C**

Clarke, Harold H., Office of Solicitor, U. S. Department of Agriculture, Washington, D. C. (64).

CLARKE, HOPEWELL, E. M., 775 Portland Ave., St. Paul, Minn. (62). **D E**

Clarke, J. Alexander, Professor of Mathematics, West Philadelphia High School, Philadelphia, Pa. (60). **A E**

Clarke, James Frederic, M. D., University of Iowa, Fairfield, Iowa. (50). **G K**

*Clarke, John Mason, Sc. D., Ph. D., LL. D., New York State Geologist and Director of State Museum, Albany, N. Y. (45). 1897. **E**

*Clarke, Samuel Fessenden, Ph. D., Professor of Natural History, Williams College, Williamstown, Mass. (50). 1901. **F**

*Clarke, Warren Thompson, Professor of Horticulture, College of Agriculture, Berkeley, Cal. (57). 1914. **F**

Clarke, William A., E. E., 1638 Broadway, Toledo, Ohio. (60). **D**

Clarkson, Banyer, 26 West 50th St., New York, N. Y. (57). **E F G**

Clausen, Curtis P., Citrus Experiment Station, Riverside, Cal. (66). **F**

Clausen, Roy E., University of California, Berkeley, Cal. (66).

Clawson, Arthur Brooks, U. S. Department of Agriculture, Washington, D. C. (58). **F**

*Claxton, Philander P., LL. D., U. S. Commissioner of Education, Washington, D. C. (52). 1910. **I L**

Claybaugh, W. W., M. D., 319 Main St., Fort Morgan, Colo. (60). **K**

Clayberg, George Manfred, Principal, McKinley High School, Chicago, Ill. (58). **A B**

Cleaver, Albert Newton, 606 Delaware Ave., South Bethlehem, Pa. (50). **D**

*Cleaves, Margaret Abigail, M. D., 616 Madison Ave., New York, N. Y. (57). 1908. **B C H K**

*Cleghorn, Allen Mackenzie, M. D., Algonquin Park, Ontario, Canada. (60). 1911. **K**

*Cleland, Herdman Fitzgerald, Ph. D., Professor of Geology, Williams College, Williamstown, Mass. (57). 1907. **E G**

Clement, Harrison, E. M., University Club, Salt Lake City, Utah. (60). **D**

Clements, Frank Orville, Engineers Club, Dayton, Ohio. (63).

*Clements, Frederic Edward, Ph. D., Professor of Botany, University of Minnesota, Minneapolis, Minn. (52). 1905. **G**

Clements, George E., M. D., Crawfordsville, Ind. (52). **K**

*Clements, Julius Morgan, E. M., Ph. D., 20 Broad St., New York, N. Y. (51). 1903. **D E**

*Clevenger, Galen Howell, 381 Hawthorne Ave., Palo Alto, Cal. (65). 1915. **E**

Cliekener, Charles, R. F. D. 1, Box 12, Silverwood, Ind. (60). **F**

*Clifford, Harry Ellsworth, E. E., Professor of Electrical Engineering, Harvard University, Cambridge, Mass. (54). 1906. **D**

Clifton, Harry Trumbull, 509 East Walnut St., Pasadena, Cal. (65).

Clinch, Edward Sears, 133 West 121st St., New York, N. Y. (57). **I**

*Clinton, George Perkins, Sc. D., Connecticut Agricultural Experiment Station, New Haven, Conn. (54). 1906. **G**

Clo, J. Harry, Ph. D., Assistant Professor of Physics, Tulane University, New Orleans, La. (63). **B**

*Close, Charles Phillip, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (63). 1915. **G**

Clothier, R. W., Office of Farm Management, U. S. Department of Agriculture, Washington, D. C. (66). **M**

Cloud, J. H., Professor of Physics, Valparaiso University, Valparaiso, Ind. (60). **A B**

*Cloud, John W., 82 York Road, King's Cross, London, N., England. (28). 1886. **A B D**

*Clough, Homer Woodworth, Arcade, N. Y. (54). 1910. **A**

Clough, Ray W., 4145 Arcade Building, Seattle, Wash. (65).

*Clover, Alphonso Morton, Ph. D., care Parke, Davis and Co., Detroit, Mich. (63). 1915. **C**

*Clute, Willard Nelson, 209 Whitley Ave., Joliet, Ill. (57). 1909. **G**

Coan, Titus Munson, M. D., 424 West 119th St., New York, N. Y. (60). **E K**

*Coates, Charles Edward, Ph. D., Professor of Chemistry, Louisiana State University, Baton Rouge, La. (46). 1906. **C**

Coates, Joseph Hornor, "Mannering," Berwyn, Pa. (64).

*Cobb, Collier, Professor of Geology, University of North Carolina, Chapel Hill, N. C. (49). 1905. **E**

*Cobb, Herbert Edgar, Professor of Mathematics, Lewis Institute, Chicago, Ill. (58). 1908. **A D**

Cobb, John N., 2323 North Broadway, Seattle, Wash. (65).

*Cobb, Nathan Augustus, Ph. D., Chief, Division of Crop Technology, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (55). 1911. **G**

Cobb, Percy W., Nela Park, Cleveland, Ohio. (63). **K**

Cobb, William Battle, U. S. Department of Agriculture, Washington, D. C. (65). **E**

*Cobleigh, William Merriam, Professor of Chemistry and Physics, Montana State College of A. and M. Arts, Bozeman, Mont. (56). 1911. **B C**

*Coblentz, Virgil, Ph. D., 595 3d St., Brooklyn, N. Y. (58). 1910. **C**

*Coblentz, William Weber, Ph. D., Bureau of Standards, Washington, D. C. (60). 1910. **B**

Coburn, Howard L., M. E., 83 Newbury St., Boston, Mass. (60). **D**

Cochel, Wilbur Andrew, Professor of Animal Husbandry, Kansas State Agricultural College, Manhattan, Kans. (64). **G**

*Cochran, Carlos Bingham, Sc. D., Professor of Chemistry, State Normal School, West Chester, Pa. (43). 1896. **C**

Cochrane, Alexander, 40 Central St., Boston, Mass. (60).

*Cockayne, Charles Alexander, Ph. D., President, Toledo University, Toledo, Ohio. (63). 1915. **H**

Cocke, William Irby, M. D., Port Washington, N. Y. (58). **K**

*Cockerell, Theodore D. A., Professor of Zoology, University of Colorado, Boulder, Colo. (50). 1901. **F G**

*Coe, George Albert, Ph. D., LL. D., Professor of Practical Theology, Union Theological Seminary, New York, N. Y. (54). 1906. **H L**

Coe, Henry W., M. D., "The Marquam," Portland, Oregon. (32). **F H K**

Coe, Howard Sheldon, Forage Crop Investigation Office, U. S. Department of Agriculture, Washington, D. C. (64). **G**

Coe, Thomas Upham, M. D., Bangor, Me. (51). **K**

Coe, True D., M. D., Keithsburg, Ill. (58). **C E G K**

*Coe, Wesley Roswell, Ph. D., Professor of Biology, Yale University, New Haven, Conn. (58). 1910. **F**

Coffey, George Nelson, Ph. D., University of Illinois, Urbana, Ill. (64). **G**

Coffey, Walter Costella, Professor of Sheep Husbandry, University of Illinois, Urbana, Ill. (61). **F**

Coffin, Charles Albert, 30 Church St., New York, N. Y. (50).

Coffin, Fletcher Barker, Lake Forest, Ill. (53). **C**

*Coffin, Joseph George, Ph. D., Assistant Professor of Physics, College of the City of New York, New York, N. Y. (60). 1910. **B**

*Coffin, Selden Jennings, Ph. D., Professor of Astronomy, Lafayette College, Easton, Pa. (22). 1874. **A I**

Coffman, John Daniel, U. S. Forest Service, Weaverville, Cal. (65). **G**

Coffman, William H., M. D., Georgetown, Ky. (60). **K**

*Coghill, George Ellett, Ph. D., University of Kansas, Lawrence, Kansas. (52). 1903. **F**

*Cogswell, William Browne, Vice-President, Solvay Process Co., Syracuse, N. Y. (33). 1891. **D**

*Cohen, Abraham, Ph. D., Associate Professor of Mathematics, Johns Hopkins University, Baltimore, Md. (58). 1909. **A**

Cohen, Mendes, C. E., 825 North Charles St., Baltimore, Md. (50). **D**

*Cohen, Morris R., College of the City of New York, New York, N. Y. (60). 1915. **H**

*Cohen, S. Solis, M. D., 1525 Walnut St., Philadelphia, Pa. (50). 1903. **F K**

Cohen, William Nathan, LL. D., 22 William St., New York, N. Y. (57). **I**

Cohn, Alfred E., M. D., 315 Central Park, West, New York, N.Y. (64). **K**

Cohn, Charles C., P. O. Box 764, Manila, P. I. (66).

*Cohoe, Benson Ambrose, M. D., 705 North Highland Ave., Pittsburgh, Pa. (58). 1911. **K**

Coil, Nathan Watson, Superintendent, Monroeville Public Schools, Monroeville, Ind. (57). **G**

*Coit, James Milnor, Ph. D., Konradstrasse 4, Munich, Germany. (33). 1903. **B C E**

*Coit, John Eliot, Ph. D., Professor of Citriculture, University of California, Berkeley, Cal. (55). 1911. **G**

*Coit, Judson Boardman, Ph. D., Professor of Mathematics and Astronomy, Boston University, Boston, Mass. (54). 1906. **A**

*Coker, Robert Ervin, Ph. D., Deputy Commissioner, U. S. Bureau of Fisheries, Washington, D. C. (57). 1909. **E F**

*Coker, William Chambers, Ph. D., Professor of Botany, University of North Carolina, Chapel Hill, N. C. (52). 1905. **G**

Colaneri, Francois, M. D., 135 rue Lamarck, Paris, France. (65). **K**

Colby, Charles C., Associa.e Professor of Geography, George Peabody School for Teachers, Nashville, Tenn. (60). **E**

*Cole, Alfred Dodge, Professor of Physics, Ohio State University, Columbus, Ohio. (39). 1891. **B C**

Cole, Clarence Le Roy, Captain, Medical Corps, U. S. A., Fort Sam Houston, Tex. (65). **K**

*Cole, Fay Cooper, Field Museum of Natural History, Chicago, Ill. (60). 1911. **H**

Cole, Francis J., M. E., 3 Avon Road, Schenectady, N. Y. (63). **D**

Cole, George Watson, 1840 Canyon Drive, Hollywood, Los Angeles, Cal. (52). **I**

Cole, Glenn Gates, Bethany, W. Va. (58). **C**

*Cole, Harry Newton, Department of Chemistry, University of Michigan, Ann Arbor, Mich. (58). 1911. **B C**

*Cole, Lawrence Wooster, Ph. D., Professor of Psychology and Education, University of Colorado, Boulder, Colo. (62). 1915. **H L**

*Cole, Leon Jacob, Ph. D., Professor of Experimental Breeding, University of Wisconsin, Madison, Wis. (52). 1909. **F**

*Cole, Rufus I., M. D., Director, Rockefeller Institute Hospital, New York, N. Y. (58). 1909. **K**

*Coleman, Arthur Philemon, Ph. D., Professor of Geology, University of Toronto, Toronto, Canada. (60). 1910. **E**

Coleman, George Albert, Curator, Entomological Museum, University of California, Berkeley, Cal. (60). **F**

*Coleman, Warren, M. D., 58 West 55th St., New York, N. Y. (57). 1909. **K**

*Coley, William Bradley, M. D., 40 East 41st St., New York, N. Y. (57). 1911. **K**

Colie, Edward Martin, East Orange, N. J. (30). **E I**

Colket, James Hamilton, M. E., 288 De Kalb Ave., Brooklyn, N. Y. (60). **D**

Collens, Archibald Edgar, Government Laboratory, Port of Spain, Trinidad, B. W. I. (58). **C G**

Colley, Bernard T., E. M., Superintendent, Braden Copper Co., Rancagua, Chile, S. A. (60). **D**

*Collie, George Lucius, Ph. D., 48 Sherwood Drive, So., Beloit, Wis. (60). 1910. **E**

*Collier, Arthur James, U. S. Geological Survey, Washington, D. C. (52). 1905. **E**

Collier, Myrtie, 5330 Pasadena Ave., Los Angeles, Cal. (66).

Collier, Price, Tuxedo Park, N. Y. (50).

Collier, Robert Joseph, 416 West 13th St., New York, N. Y. (57).

*Collin, Alonzo, Sc. D., Emeritus Professor of Physics, Cornell College, Mt. Vernon, Iowa. (21). 1891. **B C**

Collin, Rev. Henry Park, 98 East Chicago St., Coldwater, Mich. (37). **E H**
Collins, Guy N., Chula Vista, Cal. (51). **G**
*Collins, James Franklin, 468 Hope St., Providence, R. I. (58). 1909. **G**
*Collins, Katherine Richards, M. D., State Board of Health, Atlanta, Ga. (61). 1911. **K**
Collins, Mary Overstreet, Turnerville, Ga. (63). **C G L**
Collins, Paul, P. O. Box 697, New Haven, Conn. (60). **C**
Collins, T. Shields, M. D., 2425 West 23d St., Los Angeles, Cal. (51). **K**
Collison, Stanley E., Professor of Chemistry, Agricultural Experiment Station, Gainesville, Fla. (63). **G**
*Colony, Roy Jed, Assistant Professor of Metallurgy and Mineralogy, Cooper Union, New York, N. Y. (58). 1911. **C**
*COLTON, HAROLD SELLERS, Ph. D., 3409 Powelton Ave., Philadelphia, Pa. (54). 1913. **F**
*Colvin, Stephen Sheldon, Ph. D., Professor of Psychology, Brown University, Providence, R. I. (56). 1909. **H**
*Colvin, Verplanck, President, New York Canadian Pacific Railway, 175 Western Ave., Albany, N. Y. (28). 1880. **E**
Colwell, Rachel H., Professor of Home Economics, College of Agriculture, Morgantown, W. Va. (65). **I**
*Comey, Arthur Messinger, Ph. D., Upland Ave., opposite Summit St., Chester, Pa. (57). 1908. **C**
*Compton, Karl Taylor, Ph. D., Assistant Professor of Physics, Princeton University, Princeton, N. J. (65). 1915. **B**
*Comstock, Charles Worthington, C. E., M. E., Ph. D., care Ellsworth Bethel, 283 So. La Fayette St., Denver, Colo. (47). 1901. **A B D**
*Comstock, Clarence Elmer, Professor of Mathematics, Bradley Polytechnic Institute, Peoria, Ill. (58). 1908. **A L**
*Comstock, Daniel Frost, Ph.D., Assistant Professor of Theoretical Physics, Massachusetts Institute of Technology, Boston, Mass. (52). 1910. **B**
*Comstock, Elting Houghtaling, Professor of Mechanics and Mathematics, University of Minnesota, Minneapolis, Minn. (58). 1909. **A D**
*Comstock, George Cary, Sc. D., LL. D., Director, Washburn Observatory, University of Wisconsin, Madison, Wis. (34). 1887. **A L**
*Comstock, John Henry, Professor of Entomology, Cornell University, Ithaca, N. Y. (54). 1906. **F**
Comstock, Louis K., E. E., 30 Church St., New York, N. Y. (65). **D**
*COMSTOCK, THEODORE BRYANT, E. M., Sc. D., 534 Stimson Building, Los Angeles, Cal. (24). 1877. **B D E**
*Conant, Charles Arthur, 32 Nassau St., New York, N. Y. (52). 1903. **I**
*Conant, Levi Leonard, Ph. D., Professor of Mathematics, Worcester Polytechnic Institute, Worcester, Mass. (39). 1892. **A H L**
*Conard, Henry Shoemaker, Ph. D., Professor of Botany, Grinnell College, Grinnell, Iowa. (58). 1909. **G**

Conarroe, Thomas H., M. D., 1807 Wallace St., Philadelphia, Pa. (50). **F K**

Conaty, Rt. Rev. Thomas James, D. D., 114 E. 2d St., Los Angeles, Cal. (66).

Condit, Daniel Dale, care U. S. Geological Survey, Washington, D. C. (63). **E**

Condit, Ira J., 908 Indian Rock Ave., Berkeley, Cal. (66).

Condon, T. G., 128 Broadway, New York, N. Y. (57).

*Condra, George Evert, Ph. D., Professor of Geography and Economic Geology, University of Nebraska, Lincoln, Nebr. (54). 1911. **E**

*Cone, Lee Holt, Ph. D., 521 Monroe St., Ann Arbor, Mich. (61). 1911. **C**

*Congdon, Edgar Davidson, Ph. D., Laboratory of Human Anatomy, Leland Stanford Junior University, Stanford University, Cal. (57). 1913. **F**

Congdon, John Potter, C. E., 618–620 Empire Building, Boise, Idaho. (60). **D**

*Conklin, Edwin Grant, Sc. D., Ph. D., Professor of Zoology, Princeton University, Princeton, N. J. (50). 1901. **F**

Conklin, Edmund S., University of Oregon, Eugene, Oregon. (65).

Conlisk, Charles William, 2398 Vallejo St., San Francisco, Cal. (63). **E**

*Conn, Herbert William, Ph. D., Professor of Biology, Wesleyan University, Middletown, Conn. (58). 1910. **F G**

Connaway, John Waldo, M. D., Professor of Veterinary Science, University of Missouri, Columbia, Mo. (52). **F K**

Connelley, Clifford Brown, Sc. D., M. E., Carnegie Institute of Technology, Pittsburgh, Pa. (58). **D**

Conner, Arthur B., Assistant Director, Texas Agricultural Experiment Station, College Station, Texas. (65). **G M**

Conner, S. D., Assistant Professor of Agricultural Chemistry, School of Agriculture, Purdue University, La Fayette, Ind. (66). **C M**

Connett, James E., M. D., Lawrenceville, Ill. (60). **K**

Connor, Augustus Camillus, M. D., P. O. Box 8, Lexington, Texas. (60). **K**

Conolly, Henry M., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (64). **G M**

*Conradi, Albert Frederick, Professor of Entomology, Clemson Agricultural College, Clemson College, S. C. (55). 1915. **F**

*Conradson, Pontus H., Chief Chemist, Galena-Signal Oil Co., Franklin, Pa. (51). 1906. **C**

Conrey, Arthur J., Mount Lincoln High School, Palisades, Colo. (64).

Conser, Harry Newton, Assistant Professor of Botany, University of Maine, Orono, Me. (60). **G**

*Converse, Henry Augustus, Ph. D., 1204 Mt. Royal Ave., Baltimore, Md. (54). 1906. **A B**

*Converse, William A., 2005 McCormick Building, Chicago, Ill. (55). 1909. **C**

Converse, William Hasson, C. E., Converse Bridge Co., Chattanooga, Tenn. (58). **D**

Conway, Eustace, 66 Broadway, New York, N. Y. (57).

Conway, Thomas J., Texas Agricultural Experiment Station, College Station, Texas. (65). **F M**

*Cook, Albert John, Sc. D., Capitol Building, Sacramento, Cal. (58). 1914. **F**

*Cook, Alfred Newton, Ph. D., Professor of Chemistry, University of South Dakota, Vermilion, S. D. (58). 1910. **C**

*Cook, Harold James, Agate, Nebraska. (62). 1911. **E**

*Cook, Henry Wireman, M. D., 1002 Franklin Ave., W., Minneapolis, Minn. (60). 1914. **K**

Cook, Howard H., 61 Broadway, New York, N. Y. (62).

Cook, J. Franklin D., M. D., Langford, S. D. (60). **K**

Cook, J. Glenn, 4601 Garrison Ave., Baltimore, Md. (60).

Cook, John, E. E., 30 Church St., New York, N. Y. (65). **D**

Cook, John H., 12 McPherson Terrace, Albany, N. Y. (58). **E**

*Cook, Miss Margaret Harris, 122 West Linn St., Bellefonte, Pa. (63). 1914. **F**

*Cook, Melville Thurston, Ph. D., Professor of Plant Pathology, New Jersey Agricultural Experiment Station, New Brunswick, N. J. (45). 1902. **G**

*Cook, Orator Fuller, U. S. Department of Agriculture, Washington, D. C. (40). 1892. **G**

*Cook, Samuel Richard, Ph. D., 97 Randol Ave., San Jose, Cal. (50). 1903. **A B**

Cooke, Charles Montague, Jr., Ph. D., P. O. Box 717, Honolulu, Hawaii. (58). **F**

Cooke, Forest Harwood, Nordhoff, Cal. (66).

*Cooke, Rev. George Willis, 49 Park Ave., Wakefield, Mass. (47). 1913. **H I**

Cooke, Harte, M. E., care McIntosh and Seymour Corp., Auburn, N. Y. (53). **D**

Cooke, Louis J., M. D., 909 6th St., S. E., Minneapolis, Minn. (61). **K**

*Cooke, Morris Llewellyn, M. E., 401 West Walnut Lane, Germantown, Pa. (60). 1915. **D**

Cookman, Alfred, Professor of Biology, University of Southern California, Los Angeles, Cal. (65). **F**

Cooksey, Charlton Dows, 104 Huntington St., New Haven, Conn. (64). **B**

*Cooley, Grace E., Ph. D., 11 Thomas St., Newark, N. J. (47). 1900. **G I**

*Cooley, Jacquelin Smith, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (63). 1913. **G**

*Cooley, LeRoy Clark, Ph. D., 2 Reservoir Square, Poughkeepsie, N. Y. (19). 1880. **B C**

*Cooley, Mortimer Elwyn, M. E., LL. D., Professor of Mechanical Engineering, University of Michigan, Ann Arbor, Mich. (33). 1885. **D**

*Cooley, Robert Allen, Professor of Zoology, Montana State College of A. and M. Arts, Bozeman, Mont. (50). 1903. **F L**

COOLIDGE, MRS. J. RANDOLPH, 130 Beacon St., Boston, Mass. (60).
Coolidge, Philip T., 77 Garfield St., Watertown, Mass. (64). **M**
Coons, C. D., Professor of Physics, Denison University, Granville, Ohio. (63). **B**
Cooper, Everett Hanson, 1 Grove St., Greenwood, Mass. (64). **G**
Cooper, Frank Lawrence, Ph. D., Yale Station, New Haven, Conn. (58). **B**
*Cooper, Hermon Charles, Ph. D., Professor of Chemistry, Syracuse University, Syracuse, N. Y. (51). 1906. **C**
Cooper, Thomas P., Fargo, N. D. (60).
Cooper, William S., 1345 Webster St., Palo Alto, Cal. (58). **E G**
*Coover, John Edgar, Ph. D., Leland Stanford Junior University, Stanford University, Cal. (64). 1914. **H**
Coover, Winfred F., Associate Professor of Chemistry, Iowa State College, Ames, Iowa. (61). **C**
Cope, R. P., Pullman, Wash. (66).
Cope, Thomas Darlington, Assistant Professor of Physics, University of Pennsylvania, Philadelphia, Pa. (65). **B**
*Copeland, Edwin Bingham, Ph. D., Dean, College of Agriculture, University of the Philippines, Los Banos, P. I. (45). 1901. **G**
*Copeland, Manton, Ph. D., Professor of Biology, Bowdoin College, Brunswick, Me. (60). 1911. **F**
*Copeland, William Franklin, Ph. D., Professor of Elementary Science, State Normal College, Ohio University, Athens, Ohio. (58). 1911. **G**
*Coplin, William M. L., M. D., Professor of Pathology and Bacteriology, Jefferson Medical College, Philadelphia, Pa. (51). 1903. **K**
*Corbett, Lee Cleveland, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (48). 1901. **G**
*Cordley, Arthur Burton, Dean, School of Agriculture, Oregon State Agricultural College, Corvallis, Oregon. (64). 1915. **G**
*Corey, Fred Brainard, E. E., M. E., 245 Maplewood Ave., Edgewood Park, Pa. (58). 1915. **D**
*Corey, Samuel Arthur, Ph. D., Hiteman, Iowa. (58). 1909. **A**
*Cornelison, Robert Wilson, Sc. D., 275 West Summit St., Somerville, N. J. (51). 1911. **C**
Cornish, George A., Normal School, Peterboro, Ontario, Canada. (52). **F**
*Cornman, Oliver Perry, Ph. D., 422 Church Lane, Philadelphia, Pa. (46). 1911. **H I L**
Cornwall, Neill C., 2230 Chapel St., Berkeley, Cal. (65).
Corper, Harry J., M. D., Ph. D., Municipal Tuberculosis Sanitarium, Chicago, Ill. (64). **K**
Cort, William Walter, Ph. D., Associate Professor of Biology, Macalester College, St. Paul, Minn. (66). **F**
*Corthell, Elmer Lawrence, C. E., The Corthell Library, Brown University, Providence, R. I. (34). 1886. **D I**

Corti, José S., C. E., Casilla 68, Mendoza, Argentina, S. A. (60). **D**

Corwin, Clifford Egbert, Department of Science, Marietta High School, Marietta, Ohio. (50). **C**

*Corwin, Roy S., Department of Geology, Williams College, Williamstown, Mass. (63). 1915. **E**

Corwin, Theodore W., M. D., 146 2d Ave., Newark, N. J. (58). **K**

Coss, James Austin, 4654 Morningside Ave., Sioux City, Iowa. (58). **C**

*Coste, Eugène, M. E., 2208 Amherst St., Calgary, Alberta, Canada. (62). 1913. **D**

Costello, Harry Todd, Ph. D., 112 South 9th St., Richmond, Ind. (61).

COSTER, EDWARD L., Room 1440, 25 Broad St., New York, N. Y. (63). **D**

Cottingham, Walter H., 601 Canal Road, N. W., Cleveland, Ohio. (63).

*Cotton, Edwin Charles, Elyria, Ohio. (55). 1913. **F**

Cotton, John, M. D., Burnt Hills, N. Y. (60). **K**

*Cottrell, Frederick Gardner, Ph. D., 506 U. S. Custom House, San Francisco, Cal. (65). 1915. **C**

Coulter, John Gaylord, Ph. D., 1109 East Monroe St., Bloomington, Ill. (58). **F G L**

*Coulter, John Merle, Ph. D., Professor of Botany, University of Chicago, Chicago, Ill. (32). 1884. **G**

*Coulter, Samuel Monds, Ph. D., The Shaw School of Botany, St. Louis, Mo. (52). 1905. **G**

*Councilman, William Thomas, M. D., LL. D., Professor of Pathological Anatomy, Harvard Medical School, Boston, Mass. (54). 1906. **K**

Coupland, George, Elgin, Nebraska. (64).

Courtis, Stuart Appleton, Department of Educational Research, Detroit, Mich. (61). **A L**

Coutant, Richard Bonnet, M. D., Tarrytown, N. Y. (51). **K**

*Coville, Frederick Vernon, U. S. Department of Agriculture, Washington, D. C. (35). 1890. **G**

Cowan, William A., 129 York St., Brooklyn, N. Y. (58). **A B C**

Cowart, Fletcher Jackson, Professor of Natural Science, State Normal College, Troy, Ala. (53). **F**

*Cowdry, Edmund Vincent, Johns Hopkins Medical School, Baltimore, Md. (61). 1915. **F**

Cowgill, H. B., Insular Experiment Station, Rio Piedras, P. R. (64). **G**

*Cowles, Alfred Hutchinson, E. M., Sewaren, N. J. (37). 1897. **B C D**

*Cowles, Edward, M. D., LL. D., 8 Sever St., Plymouth, Mass. (51). 1903. **H K**

*Cowles, Henry Chandler, Ph. D., Professor of Botany, University of Chicago, Chicago, Ill. (54). 1906. **G**

*Cowles, Miss Louise F., South Hadley, Mass. (47). 1905. **E**

*Cowles, Rheinart Parker, Ph. D., College of Medicine and Surgery, University of the Philippines, Manila, P. I. (58). 1910. **F**

*Cowling, Donald John, Ph. D., D. D., President, Carleton College, Northfield, Minn. (60). 1915. **H**

Cowper, Ophelia Morgan, 1016 Eighth St., N. W., Washington, D. C. (66). **K**

*Cowper-Coles, Sherard, The Cottage, French St., Sunbury-on-Thames, London, England. (64). 1915. **C**

Cox, Edmund Otis, C. E., 154 Nassau St., New York, N. Y. (51). **D**

Cox, Harold Newton, care Lalance & Grosjean Manufacturing Co., Woodhaven, N. Y. (58). **C D**

Cox, John H., 217 Chamber of Commerce Building, Baltimore, Md. (61). **C**

Cox, John Lyman, 1219 Locust St., Philadelphia, Pa. (54). **B D**

Cox, Lolo L., R. R. 1, Zillah, Wash. (65).

Cox, Nelson H., University of Florida, Gainesville, Fla. (58). **D**

*Cox, Ulysses Orange, P. O. Box 81, Terre Haute, Ind. (50). 1906. **F G**

Cox, William Thomas, State Forester, 61 South St. Albans St., St. Paul, Minn. (62). **M**

Coxe, Alexander Brown, Paoli, Pa. (65).

COXE, ECKLEY B., JR., U. S. Weather Bureau Observatory, Drifton, Pa. (51). **E H**

Coykendall, Frederick, General Manager, Cornell Steamboat Co., 1 West 72d St., New York, N. Y. (57).

Coyle, Rev. George L., S. J., Professor of Chemistry, Holy Cross College, Worcester, Mass. (61). **C**

*Crafts, James Mason, LL. D., 19 Commonwealth Ave., Boston, Mass. (47). 1898. **C**

*Cragin, Francis Whittemore, Ph. D., 912 E. San Miguel St., Colorado Springs, Colo. (29). 1890. **E F G H**

*Cragwall, Jasper A., Ph. D., Professor of Mathematics, Wabash College, Crawfordsville, Ind. (57). 1909. **A**

Craig, Alexander Righter, M. D., 9 Chalmers Place, Chicago, Ill. (51). **K**

Craig, Thomas, F. R. M. S., 26 Selkirk Ave., Montreal, Canada. (57). **G**

*Craig, Wallace, Ph. D., Professor of Philosophy, University of Maine, Orono, Me. (50). 1914. **F H**

*Craighead, Edwin Boone, LL. D., President, University of Montana, Missoula, Mont. (54). 1906. **G**

*Craighead, Frank C., Bureau of Entomology, U. S. Department of Agriculture, Washington, D. C. (63). 1915. **F**

*CRAM, ROYS JONES, 26 Hancock Ave., West, Detroit, Mich. (51). 1906. **F**

Cramer, Charles H., 516 Madison St., Sandusky, Ohio. (62). **A L**

Cramp, W. M., 1227 North Broad St., Philadelphia, Pa. (54). **D**

*Crampton, Charles Albert, M. D., Institute of Industrial Research, Washington, D. C. (36). 1887. **C**

*Crampton, Charles Ward, M. D., 500 Park Ave., New York, N. Y. (53) 1907. **K**

*Crampton, Guy Chester, Ph. D., Associate Professor of Entomology, Massachusetts Agricultural College, Amherst, Mass. (62). 1911. **F**

*Crampton, Henry Edward, Ph. D., American Museum of Natural History, New York, N. Y. (51). 1903. **F H**

*Crandall, Charles Spencer, Professor of Pomology, University of Illinois, Urbana, Ill. (40). 1894. **G**

*Crandall, Roderic, Stanford University, Cal. (57). 1915. **E**

Crane, Mrs. Joseph Halsey, Oakwood Village, Dayton, Ohio. (66). **I L**

Crane, Marcus S., Caldwell, N. J. (58). **F**

Cranston, Robert E., E. M., Holbrook Building, San Francisco, Cal. (50). **C D E**

*Crathorne, Arthur Robert, Ph. D., 1113 South 4th St., Champaign, Ill. (60). 1910. **A**

Craver, Harrison Warwick, Carnegie Library, Pittsburgh, Pa. (58). **C**

*Crawford, James Chamberlain, Associate Curator of Insects, U. S. National Museum, Washington, D. C. (54). 1913. **F**

*Crawford, Morris Barker, Professor of Physics, Wesleyan University, Middletown, Conn. (30). 1889. **B**

*Crawford, Ralph Dixon, Ph. D., Professor of Mineralogy and Petrology, University of Colorado, Boulder, Colo. (58). 1911. **C E**

*Crawford, Russell Tracy, Ph. D., Associate Professor of Practical Astronomy, University of California, Berkeley, Cal. (58). 1910. **A**

*Crawley, Edwin Schofield, Ph. D., Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. (45). 1900. **A**

Crawley, Howard, Bureau of Animal Industry, U. S. Department of Agriculture, Washington, D. C. (51). **F**

Crawley, Joseph Sanford, 9th and Jefferson Sts., Philadelphia, Pa. (54). **I**

Creel, Cecil Willis, 1265 Kensington Ave., Salt Lake City, Utah. (65). **F**

Creel, Milton P., M. D., Central City, Ky. (60). **K**

*Crehore, Albert Cushing, Ph. D., 409 North Broadway, Yonkers, N. Y. (50). 1908. **D E**

*Creighton, Elmer E. F., E. E., Union University, Schenectady, N. Y. (62). 1911. **D**

*Creighton, James Edwin, Ph. D., LL. D., Sage Professor of Logic and Metaphysics, Cornell University, Ithaca, N. Y. (54). 1906. **H**

*Crew, Henry, Ph. D., Professor of Physics, Northwestern University, Evanston, Ill. (52). 1903. **B**

*Criddle, Norman, Treesbank, Manitoba, Canada. (63). 1914. **G**

*Crile, George W., M. D., Ph. D., Professor of Clinical Surgery, Western Reserve University, Cleveland, Ohio. (51). 1903. **K**

Crispin, Antonio M., M. D., 854 Lexington Ave., New York, N. Y. (60). **K**

Crites, B. O., 1341 East 89th St., N. E., Cleveland, Ohio. (58). **C**

*Crockard, Frank Hearne, E. M., C. E., Vice-President and General Manager, Tennessee Coal, Iron and Railway Co., Birmingham, Ala. (50). 1915. **D**

Crocker, Edward Edgar, Crafton, Pa. (58). **D**

*Crocker, Francis Bacon, Ph. D., E. E., Professor of Electrical Engineering, Columbia University, New York, N. Y. (50). 1901. **B D**

CROCKER, MISS SARAH H., 319 Commonwealth Ave., Boston, Mass. (60).

*Crocker, William, Ph. D., Assistant Professor of Botany, University of Chicago, Chicago, Ill. (58). 1909. **G**

Crocker, William Henry, Burlingame, Cal. (65).

*Crockett, Charles Winthrop, Professor of Mathematics and Astronomy, Rensselaer Polytechnic Institute, Troy, N. Y. (39). 1894. **A D**

Cromwell, Richard O., North Carolina College of A. and M. Arts, West Raleigh, N. C. (64). **G**

Cron, A. B., Agricultural Experiment Station, Amarillo, Texas. (66). **M**

*Crook, Alja Robinson, Ph. D., Curator, Illinois State Museum of Natural History, Springfield, Ill. (47). 1902. **E**

Crooker, George Hazard, M. D., 101 Benefit St., Providence, R. I. (60). **K**

*Crosby, Cyrus Richard, Professor of Entomology, Cornell University, Ithaca, N. Y. (57). 1913. **F**

Crosby, Maunsell S., Rhinebeck, N. Y. (57). **F**

Crosby, Oscar Terry, E. E., LL. D., Warrenton, Va. (52). **C E I**

Crosby, Maj. Walter Wilson, C. E., Sc. D., 1431 Munsey Building, Baltimore, Md. (60). **D**

Crosby, Mrs. William Howard, 1042 Main St., Racine, Wis. (65).

*Crosby, William Otis, Emeritus Professor of Geology, Massachusetts Institute of Technology, Boston, Mass. (47). 1900. **E**

*Cross, Charles Robert, Professor of Physics, Massachusetts Institute of Technology, Boston, Mass. (29). 1880. **B L**

Cross, Roy, Ph. D., 1013 Grand Ave., Kansas City, Mo. (64). **C**

Cross, Walter M., City Hall, Kansas City, Mo. (58). **C**

*Cross, Whitman, Ph. D., U. S. Geological Survey, Washington, D. C. (54). 1906. **E**

*Crossley, Moses Leverock, Ph. D., Associate Professor of Organic Cheministry, Wesleyan University, Middletown, Conn. (63) 1915. **C**

Crow, Hallie Ernest, Department of Biology, Ursinus College, Collegeville, Pa. (66). **F**

Crowe, Albert B., Charleston, Ill. (58).

*Crowe, S. J., M. D., Johns Hopkins Hospital, Baltimore, Md. (60). 1915. **K**

CROWELL, A. F., 26 Rowe St., Auburndale, Mass. (30). **C**

*Crowell, John Franklin, Ph. D., 20 Lenox Ave., Eastt Orange, N. J. (50). 1901. **I**

Crowell, Lincoln, care Indian Service, Neopit, Wis. (66). **M**

Crowley, Charles F., M. D., John A. Creighton Medical College, Omaha, Nebr. (53). **C K**

*Croxton, Fred C., Industrial Commission of Ohio, Columbus, Ohio. (54). 1906. **I**

*Crozier, William, Brigadier-General, U. S. A., and Chief of Ordnance, War Department, Washington, D. C. (50). 1903. **D**

Crozier, William J., Zoological Laboratory, Harvard University, Cambridge, Mass. (63). **F**

*Crump, Col. Malcolm Hart, Room 24, Court House, Bowling Green, Ky. (29). 1911. **E**

*Cubberley, Ellwood Patterson, Ph. D., Head, Department of Education, Leland Stanford Junior University, Stanford University, Cal. (66). 1915. **L**

Culbreth, David M. R., M. D., 1307 North Calvert St., Baltimore, Md. (60). **K**

*Culin, Stewart, Curator, Department of Ethnology, Brooklyn Institute of Arts and Sciences, Brooklyn, N. Y. (33). 1890. **H**

*Cullen, Thomas Stephen, M. D., 20 East Eager St., Baltimore, Md. (54). 1909. **D K**

*Culver, Garry Eugene, Professor of Geology and Chemistry, State Normal School, Stevens Point, Wis. (54). 1906. **C E**

Culver, Miss Helen, Lake Forest, Ill. (58). **E**

*Cumings, Edgar Roscoe, Ph. D., Professor of Geology, Indiana University, Bloomington, Ind. (48). 1901. **E**

*Cummings, Byron, Dean, School of Arts and Sciences, University of Utah, Salt Lake City, Utah. (58). 1915. **H**

Cummings, Carlos E., M. D., Secretary, Buffalo Society of Natural History, Buffalo, N. Y. (57). **F**

Cummings, Mrs. Charles A., 230 Clarendon St., Boston, Mass. (60).

*Cummings, Marshall Baxter, Ph. D., Professor of Horticulture, Vermont Agricultural Experiment Station, Burlington, Vt. (60). 1911. **G**

*Cummins, George Wyckoff, M. D., Belvidere, N. J. (50). 1911. **F G K**

Cunnane, William B., M. D., Ph. D., Santa Barbara, Cal. (60). **K**

Cunningham, Gilbert Cameron, Vermont Agricultural Experiment Station, Burlington, Vt. (63). **G**

*Cunningham, Susan J., Sc. D., 107 North 34th St., Philadelphia, Pa. (38). 1901. **A**

Cunningham, W. F., 209 Cobb Building, Seattle, Wash. (66).

Cuntz, Johannes H., 325 Hudson St., Hoboken, N. J. (36).

CURIE, CHARLES, 22 William St., New York, N. Y. (57).

Currie, Charles A., M. D., P. O. Box 1606, Philadelphia, Pa. (48). **F K**

Currie, Thomas R., M. D., 512 West Lehigh Ave., Philadelphia, Pa. (60). **K**

Currier, Louis Wade, Professor of Geology, University of Idaho, Moscow, Idaho. (66). **E**

Curry, Samuel Silas, Ph. D., 60 Bay State Road, Boston, Mass. (65).

Curtis, Bracey, E. M., Nogales, Ariz. (60). **D**

*Curtis, Carlton Clarence, Ph. D., Professor of Botany, Columbia University, New York, N. Y. (51). 1903. **G**

Curtis, Edward S., 709 2d Ave., Seattle, Wash. (64).

Curtis, G. Lenox, M. D., 71 Central Park, West, New York, N. Y. (51). **K**

*Curtis, George Carroll, 11 Weyanoke St., Boston, Mass. (52). 1905. **E**

Curtis, George M., Assistant Professor of Anatomy, Vanderbilt Medical School, Nashville, Tenn. (64). **K**

Curtis, George W., Plansifter Milling Co., Oklahoma City, Okla. (50).

*Curtis, Heber Doust, Ph. D., Lick Observatory, Mt. Hamilton, Cal. (58). 1910. **A**

Curtis, Lester, 1031 East 50th St., Chicago, Ill. (58).

*Curtis, Mattoon Monroe, Ph. D., Professor of Philosophy, Western Reserve University, Cleveland, Ohio. (50). 1906. **H I**

Curtis, Maynie Rose, Maine Agricultural Experiment Station, Orono, Me. (65). **F**

Curtis, Ralph W., Landscape Art Department, New York State College of Agriculture, Ithaca, N. Y. (61). **G**

*Curtis, Winterton Conway, Ph. D., Professor of Zoology, University of Missouri, Columbia, Mo. (53). 1905. **F**

*Curtiss, Charles Franklin, Sc. D., Director, Iowa Agricultural Experiment Station, Ames, Iowa. (54). 1911. **G**

*Curtiss, Richard Sydney, Ph. D., Throop College of Technology, Pasadena, Cal. (52). 1903. **C**

Cushing, Charles S., 821 First National Bank Building, San Francisco, Cal. (65).

*Cushing, Harvey, M. D., Professor of Surgery, Harvard Medical School, Boston, Mass. (52). 1906. **K**

Cushing, Hayward W., M. D., 70 Commonwealth Ave., Boston, Mass. (61). **K**

*Cushing, Henry Platt, Ph. D., Professor of Geology, Adelbert College, Cleveland, Ohio. (33). 1888. **E**

Cushing, William Erastus, 2908 Euclid Ave., Cleveland, Ohio. (63). **I**

*Cushman, Allerton Seward, Ph. D., Director, Institute of Industrial Research, Washington, D. C. (50). 1901. **C D E F**

Cushman, Gerald R., 637 West North Ave., Baltimore, Md. (61). **F**

Cusick, Laurence F., M. D., 99 Newbury St., Boston, Mass. (60). **K**

*Cutler, Elbridge Gerry, M. D., 214 Beacon St., Boston, Mass. (54). 1906. **K**

Cutter, George, E. E., Broad Branch Road, Washington, D. C. (58). **D**

Cutter, Irving Samuel, M. D., University of Nebraska College of Medicine, Omaha, Nebr. (50). **G K**

*Dabney, Charles William, Ph. D., LL. D., President, University of Cincinnati, Cincinnati, Ohio. (47). 1901. **C I L M**

Dabney, Thomas Gregory, C. E., Clarksdale, Miss. (60). **D**

*Dachnowski, Alfred Paul, Ph. D., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (57). 1909. **G**

*da Costa Sena, Dr. Joaquim Candido, Director, School of Mines, Ouro Preto, Brazil, S. A. (54). 1906. **E**

*Dadourian, Haroutune Mugurditch, Ph. D., 8 Prospect Place, New Haven, Conn. (60). 1910. **A B**

Daecke, V. A. Eric, 2008 North 3d St., Harrisburg, Pa. (58). **F**

Daft, Leo, E. E., Rutherford, N. J. (58). **D**

Daggett, Frank S., Museum, Exposition Park, Los Angeles, Cal. (65).

Daggette, Alvin S., M. D., 400 South Craig St., Pittsburgh, Pa. (50). **F K**

*Dahlgren, Ulric, Ph. D., Professor of Biology, Princeton University, Princeton, N. J. (51). 1905. **F**

Dahm, Thomas M., Science Hall, Madison, Wis. (58). **A B D**

Daines, Lyman L., Logan, Utah. (66).

*Dains, Frank Burnett, Ph. D., Associate Professor of Chemistry, University of Kansas, Lawrence, Kans. (56). 1908. **C**

Dakin, Channing E., M. D., Century Block, Mason City, Iowa. (58). **E H I K**

*Dakin, Henry Drysdale, Sc. D., 819 Madison Ave., New York, N. Y. (62). 1915. **C**

*Dalaker, Hans H., Assistant Professor of Mathematics, University of Minnesota, Minneapolis, Minn. (62). 1915. **A D**

Daland, William Clifton, D. D., President, Milton College, Milton, Wis. (52). **I**

Dalcour, Gustave T., Ellicott City, Md. (60).

*Dales, Benton, Ph. D., Professor of Analytical Chemistry, University of Nebraska, Lincoln, Nebr. (56). 1908. **C**

*Dall, William Healey, Sc. D., Smithsonian Institution, Washington, D. C. (18). 1874. **F G**

Dallenbach, Karl M., Orchard Ave. and Fairmont Boulevard, Eugene, Oregon. (66). **H**

*Dalrymple, William Haddock, Professor of Veterinary Science, Louisiana State University, Baton Rouge, La. (50). 1911. **K**

Damon, John Churchill, E. E., Utah Power and Light Co., Kearns Building, Salt Lake City, Utah. (60). **D**

*Dana, Charles Loomis, M. D., LL. D., 53 West 53d St., New York, N. Y. (46). 1899. **H K**

*Dana, Edward Salisbury, Ph. D., Professor of Physics, Yale University, New Haven, Conn. (23). 1875. **B E**

*Dana, Samuel Trask, U. S. Forest Service, Washington, D. C. (64). 1915. **G M**

*Danforth, Charles Haskell, Washington University Medical School, St. Louis, Mo. (63). 1915. **F**

*Daniel, J. Frank, Ph. D., Assistant Professor of Zoology, University of California, Berkeley, Cal. (60). 1913. **F H**

*Daniel, John, Professor of Physics, Vanderbilt University, Nashville, Tenn. (50). 1911. **B**

*Daniels, Francis, Ph. D., Professor of Romance Languages, Wabash College, Crawfordsville, Ind. (60). 1911. **G**

Daniels, H. A., 613 Prospect St., Cleveland, Ohio. (63).

*Daniels, Joseph, Assistant Professor of Mining Engineering, University of Washington, Seattle, Wash. (61). 1914. **D E L**

Danielson, Florence Harris, Department of Biology, Brown University, Providence, R. I. (65). **F**

Darling, Chester A., Ph. D., Professor of Biology and Geology, Allegheny College, Meadville, Pa. (65). **E G**

*Darling, Eugene Abraham, M. D., 138 Brattle St., Cambridge, Mass. (62). 1911. **K**

Darling, John Henry, C. E., care Lincoln Hotel, 13th and Locust Sts., Philadelphia, Pa. (60). **D**

Darling, Miss Nancy, R. F. D. 2, Woodstock, Vermont. (64).

Darlington, Henry Townsend, Assistant Professor of Botany, Michigan Agricultural College, East Lansing, Mich. (65). **G M**

*Darlington, Thomas, M. D., 27 Washington Square, New York, N. Y. (57). 1908. **K**

Darrin, Mrs. Elizabeth Reid, 523 West 121st St., New York, N. Y. (66).

Dart, Carlton Rollin, C. E., 706 Greenleaf Ave., Wilmette, Ill. (60). **D**

*Darton, Nelson Horatio, U. S. Geological Survey, Washington, D. C. (37). 1893. **E**

Dascher, Henry, 339 East 26th St., New York, N. Y. (58). **C**

Dashiell, W. W., M. E., 848 St. Nicholas Ave., New York, N. Y. (60). **D**

Daugherty, Lewis Sylvester, Ph. D., 223 South Orange St., Cameron, Mo. (53). **F**

*d'Auria, Luigi, 203 St. Marks Square, Philadelphia, Pa. (51). 1903. **A D**

*Davenport, Charles Benedict, Ph. D., Director, Station for Experimental Evolution, Cold Spring Harbor, Long Island, N. Y. (46). 1898. **F G**

Davenport, Mrs. Elizabeth Braxton, Northern Drive, Brattleboro, Vt. (57). **F G**

*Davenport, Eugene, LL. D., Dean, College of Agriculture, University of Illinois, Urbana, Ill. (39). 1909. **G M**

David, William King, 829 West Cambria St., Philadelphia, Pa. (60). **A**

*Davidson, James Grant, Ph. D., Professor of Physics, McGill University College, Vancouver, B. C., Canada. (58). 1910. **B L**

*Davidson, Robert James, Professor of Chemistry, Virginia Polytechnic Institute, Blacksburg, Va. (40). 1911. **C**

Davies, Clara A., 362 Hudson Ave., Newark, Ohio. (63).

Davies, Julien Tappan, 34 Nassau St., New York, N. Y. (57). **I**

*Davis, Andrew McFarland, 10 Appleton St., Cambridge, Mass. (35). 1906. **H**

Davis, Arthur Eldorus, M. D., Arbala, Texas. (65). **K**

*Davis, Benjamin Marshall, Ph. D., Professor of Agricultural Education, Miami University, Oxford, Ohio. (65). 1915. **G M**

*Davis, Bergen, Ph. D., Associate Professor of Physics, Columbia University, New York, N. Y. (49). 1905. **B**

*Davis, Bradley Moore, Ph. D., Professor of Botany, University of Pennsylvania, Philadelphia, Pa. (45). 1897. **G**

*Davis, Charles Albert, Ph. D., U. S. Bureau of Mines, Washington, D. C. (60). 1911. **E**

Davis, Charles Gilbert, M. D., 4630 Grand Boulevard, Chicago, Ill. (51). **K L**

*Davis, Charles Henry, E. E., C. E., South Yarmouth, Mass. (58). 1915. **D**

Davis, Charles P., P. O. Box 1590, Springfield, Mass. (61).

Davis, Daniel, 626 No. Broadway, Baltimore, Md. (62).

*Davis, David John, M. D., 721 Elmwood Ave., Wilmette, Ill. (60). 1911. **K**

Davis, Donald Walton, Ph. D., De Pauw University, Greencastle, Ind. (55). **F G**

Davis, Edward E., 47 West Main St., Norwich, N. Y. (50). **E G**

*Davis, Ellery Williams, Ph. D., Professor of Mathematics, University of Nebraska, Lincoln, Nebr. (55). 1906. **A**

Davis, Grace Evangeline, Associate Professor of Physics, Wellesley College, Wellesley, Mass. (57). **B**

*Davis, Harvey Nathaniel, Ph. D., Assistant Professor of Physics, Yale University, Cambridge, Mass. (60). 1910. **A B**

*Davis, Herbert Burnham, Ph. D., Principal, Pittsburgh Training School for Teachers, 6433 Monitor St., Pittsburgh, Pa. (60). 1911. **H**

*Davis, Herbert Spencer, Ph. D., Professor of Zoology and Bacteriology, University of Florida, Gainesville, Fla. (57). 1911. **F**

*Davis, Herman Stearns, Ph. D., Andover Terrace, Schenley Heights, Pittsburgh, Pa. (50). 1901. **A D I**

Davis, Horace, LL. D., 1800 Broadway, San Francisco, Cal. (65). **I**

*Davis, John Jefferson, M. D., Biology Building, Madison, Wis. (31). 1899. **G K**

*Davis, John June, Experiment Station Building, La Fayette, Ind. (58). 1914. **F**

Davis, John Staige, M. D., 1200 Cathedral St., Baltimore, Md. (60). **K**

*Davis, Kary Cadmus, Ph. D., Director, Knapp School of Country Life, Nashville, Tenn. (50). 1911. **B C D G L**

Davis, Lincoln, M. D., 217 Beacon St., Boston, Mass. (60). **K**

*Davis, Nathan Smith, M. D., 8 East Huron St., Chicago, Ill. (50). 1909. **F G K**

*Davis, Nathaniel French, LL. D., Professor of Pure Mathematics, Brown University, Providence, R. I. (54). 1906. **A**

*Davis, William Harper, Librarian, Public Service Corporation, Newark, N. J. (50). 1903. **H I**

*Davis, William Morris, Sc. D., Ph. D., Emeritus Professor of Geology, Harvard University, Cambridge, Mass. (33). 1885. **B E**

*Davis, William Thompson, 146 Stuyvesant Place, New Brighton, N. Y. (57). 1911. **G**

*Davison, Alvin, Ph. D., Professor of Biology, Lafayette College, Easton, Pa. (49). 1905. **F**

*Davison, John Mason, care I. C. Goodridge, The Upham, Santa Barbara, Cal. (38). 1911. **C**

*Davisson, Schuyler Colfax, Sc. D., Professor of Mathematics, Indiana University, Bloomington, Ind. (58). 1908. **A**

*DAVY, JOSEPH BURTT, Transvaal Maize Breeding Station, Burttholm, Vereeniging, South Africa. (51). 1903. G

Dawson, Jean, Ph. D., Normal School, Stearns Road, Cleveland, Ohio. (62). F

*Dawson, Percy Millard, M. D., University of Wisconsin, Madison, Wis. (50). 1903. F K

Dawson, William Leon, Los Colibris, Mission Canon, Santa Barbara, Cal. (65).

Day, Artemas L., Department of Zoology, University of the Philippines, Manila, P. I. (63). F

*Day, Edward C., Syracuse University, Syracuse, N. Y. (65). 1915. F

Day, Leonard H., Hollister, Cal. (58). F

*DAY, WILLIAM SCOFIELD, Ph. D., 220 Hobart Ave., Summit, N. J. (50). 1901. B

*Dean, Arthur Lyman, Ph. D., President, College of Hawaii, Honolulu, Hawaii. (53). 1906. C D

*Dean, Bashford, Ph. D., Professor of Vertebrate Zoology, Columbia University, New York, N. Y. (54). 1906. F

Dean, Charles Clemon, Bluffton, Ind. (64). G

Dean, Charles Ray, The Burlington, Washington, D. C. (63).

Dean, George Adams, Professor of Entomology, Kansas State Agricultural College, Manhattan, Kans. (65). G

Dean, John Candee, 1005 North Pennsylvania St., Indianapolis, Ind. (64). A

Dean, Rollin Colegrove, 26 Prospect St., Summit, N. J. (61). F

*Deans, John Sterling, Chief Engineer, Phoenix Bridge Co., Phoenixville, Pa. (51). 1915. D E

*Dearborn, George Van Ness, M. D., Ph. D., Mason St., Cambridge, Mass. (52). 1906. K

*Dearborn, Ned, Sc. D., Linden, Md. (62). 1915. F

*Dearborn, Walter Fenno, Ph. D., Associate Professor of Education, Harvard University, Cambridge, Mass. (58). 1910. H L

Dearing, Charles Thornton, U. S. Department of Agriculture, Washington, D. C. (64). G

Deavitt, H. M., 160 North Fifth Ave., Chicago, Ill. (58). C

*De Barr, Edwin, Ph. D., Director, School of Chemical Engineering, University of Oklahoma, Norman, Okla. (61). 1911. C

De Baufre, William L., E. E., 84 Market St., Annapolis, Md. (60). D

de Bey, Cornelia Bernarda, M. D., 4581 Oakenwald Ave., Chicago, Ill. (60). K

*Decker, Charles Elijah, Professor of Geology and Biology, Allegheny College, Meadville, Pa. (58). 1911. E F

*Decker, Floyd Fiske, Ph. D., Assistant Professor of Mathematics, Syracuse University, Syracuse, N. Y. (58). 1909. A

de Coppet, Edward J., 314 West 85th St., New York, N. Y. (57).

De Cou, E. E., 1135 Mill St., Eugene, Oregon. (66).
Dederick, L. S., P. O. Box 105, Princeton, N. J. (64).
Deens, Miss Anna M., 7 Roselawn Terrace, Pittsburgh, Pa. (50). **F G L**
Deere, Emil Olof, Professor of Biology, Bethany College, Lindsborg, Kans. (60). **E F G K**
de Fodor, Etienne, E. E., Budapest Gen. Electric Co., VII Kazinczy-utcza 21, Budapest, Hungary. (60). **D**
*Defoe, Luther Marion, Professor of Mechanics, University of Missouri, Columbia, Mo. (58). 1915. **A B D**
de Forest, Robert Weeks, LL. D., 30 Broad St., New York, N. Y.. (49). **I**
*Defren, George, 289 Park St., Newton, Mass. (60). 1911. **C**
de Geofroy, George, Metropolitan Club, Washington, D. C. (55). **C**
*Deghuee, Joseph Albert, Ph. D., 39 West 38th St., New York, N. Y. (40). 1900. **C**
*Dehn, William Maurice, Ph. D., Professor of Chemistry, University of Washington, Seattle, Wash. (58). 1915. **C**
*Deimel, Richard Francis, Assistant Professor of Mechanics, Stevens Institute, Hoboken, N. J. (52). 1906. **A B D**
De Jong, Conrad, M. D., Orange City, Iowa. (58). **K**
de Jong, J. T. W., Kentucky Tobacco Product Co., Louisville, Ky. (65).
*De Kalb, Courtenay, E. M., Tucson, Ariz. (54). 1911. **D**
*Delabarre, Edmund Burke, Ph. D., Professor of Psychology, Brown University, Providence, R. I. (49). 1901. **H I**
*Delafield, Maturin L., Jr., care Morgan Harjes and Co., Paris, France. (43). 1913. **G I M**
De Landero, Carlos F., General Manager, Pachuca and Real del Monte Mining Co., Pachuca, Mexico. (36). **B C**
*Delano, Frederic Adrian, President, Denver and Rio Grande R. R., 1414 Transportation Building, Chicago, Ill. (50). 1906. **D**
Delany, Patrick Bernard, E. E., Nantucket, Mass. (50). **D**
*Dellenbaugh, Frederic Samuel, 226 West 78th St., New York, N. Y. (51). 1905. **H**
*Dellinger, Oris Polk, Ph. D., Professor of Biology, Normal School, Pittsburg, Kans. (58). 1911. **F**
De Loach, Robert J. H., Director, Georgia Experiment Station, Experiment, Ga. (58). **G I L**
*De Long, Ira Mitchell, Professor of Mathematics, University of Colorado, Boulder, Colo. (60). 1910. **A**
*De Loubat, Le Duc, 53 rue Dumont d'Urville, Paris, France. (46). 1897. **H**
del Rosario, José I., 530 P Gomez, Sta. Cruz, Manila, P. I. (61).
Delwiche, Edmond Joseph, Assistant Professor of Agronomy, University of Wisconsin, Madison, Wis. (63). **G M**

*Deming, Raymond Mark, Case School of Applied Science, Cleveland, Ohio. (63). 1915. **A D**

Demming, Henry Clay, Consulting Geologist, Mineralogist and Chemist, P. O. Box 5, Harrisburg, Pa. (54). **C E**

Demmler, Paul E., 5414 Black St., E. E., Pittsburgh, Pa. (58). **C**

Denig, Blanche A., M. D., Hotel Bristol, Copley Square, Boston, Mass. (60). **K**

*Denison, Dr. Francis Napier, Dominion Meteorological Office, Victoria, B. C., Canada. (63). 1915. **A B**

*Dennett, William Sawyer, M. D., 8 East 49th St., New York, N. Y. (52). 1906. **A K**

*Dennis, David Worth, Ph. D., Professor of Biology, Earlham College, Earlham, Ind. (50). 1901. **F G**

*Dennis, Louis Munroe, Professor of Inorganic Chemistry, Cornell University, Ithaca, N. Y. (43). 1895. **C**

Dennis, Martin, 859 Summer Ave., Newark, N. J. (63).

Depew, Hon. Chauncey Mitchell, 27 West 54th St., New York, N. Y. (57). **I**

de Raasloff, Harold, C. E., 471 Park Ave., New York, N. Y. (51). **D**

Derby, George McClellan, Lieut.-Colonel, Corps of Engineers, U. S. A., Retired, U. S. Engineer Office, New Orleans, La. (50). **D**

*Derby, Orville Adelbert, Servico Geologico E Mineralogico de Brazil, Rio de Janeiro, Brazil, S. A. (39). 1890. **E**

*Derick, Carrie Matilda, Professor of Morphological Botany, McGill University, Montreal, Canada. (57). 1909. **G**

Derickson, Samuel Hoffman, Director, Tyrone Biological Laboratory, Lebanon Valley College, Annville, Pa. (64). **F G**

Derivaux, Robert C., M. D., U. S. Public Health Service, Washington, D. C. (64). **K**

Derrick, Calvin, Waterman, Cal. (66).

Dery, D. George, Catasauqua, Pa. (55). **C G**

*de Schweinitz, George Edmund, M. D., LL. D., Professor of Ophthalmology, University of Pennsylvania, Philadelphia, Pa. (54). 1911. **K L**

Des Jardins, Benjamin M., 1200 N St., N. W., Washington, D. C. (65).

Desmond, G., Chief Government Veterinarian, Adelaide, South Australia. (60). **K**

de Sta Cecelia, J. Felippe, E. E., Rua Director 7, Oura Preto, Minas, Brazil, S. A. (60). **D**

Detlefson, John A., Sc. D., Ph. D., Assistant Professor of Genetics, University of Illinois, Urbana, Ill. (64). **F**

*Detmers, Frederica, Ohio State University, Columbus, Ohio. (58). 1915. **G**

*Deussen, Alexander, University of Texas, Austin, Texas. (62). 1915. **E**

Devereux, W. L., 415 Grape St., Syracuse, N. Y. (60). **F**

Dewey, Frederick Archibald, P. O. Box 121, Bryn Mawr, Pa. (65). **I**

Dewey, Grace, M. D., 1123 West State St., Jacksonville, Ill. (60). **K**

*Dewey, John, Ph. D., LL. D., Professor of Philosophy, Columbia University, New York, N. Y. (58). 1909. **L**

*Dewey, Lyster Hoxie, U. S. Department of Agriculture, Washington, D. C. (40). 1899. **G**

Dewing, Dr. Frances Rousmaniere, 27 Old Sloan Hall, New Haven, Conn. (58). **K**

DeWitt, Charles H., Professor of Histology and Bacteriology, Valparaiso University, Valparaiso, Ind. (58). **K**

*De Wolf, Frank Walbridge, Director, State Geological Survey of Illinois, Urbana, Ill. (57). 1909. **E**

*Dexter, Edwin Grant, Ph. D., University of Porto Rico, San Juan, Porto Rico. (52). 1905. **K**

Dexter, John S., Olivet, Mich. (61). **F**

DEY, ANTHONY, 69 Liberty St., New York, N. Y. (57).

de Zeeuw, Richard, Ph. D., Assistant Professor of Botany, Michigan Agricultural College, East Lansing, Mich. (63). **G**

Diamant, L., 1528 Sutter St., San Francisco, Cal. (65).

Dice, Lee Raymond, Department of Zoology, Kansas State Agricultural College, Manhattan, Kansas. (65). **F**

Dick, Fred. J., C. E., Point Loma, Cal. (65). **D**

Dick, George Frederick, M. D., 629 South Wood St., Chicago, Ill. (63). **K**

Dickerson, Charles E., East Northfield, Mass. (60).

*Dickerson, Edgar Leek, Nutley, N. J. (62). 1915. **F**

Dickerson, Edward Nicoll, 141 Broadway, New York, N. Y. (49).

Dickerson, Mary Cynthia, Department of Woods and Forestry, American Museum of Natural History, New York, N. Y. (60). **F M**

Dickerson, Roy E., University of California, Berkeley, Cal. (65). **E G**

*Dickie, George William, Marvin Building, 24 California St., San Francisco, Cal. (54). 1915. **D**

Dickinson, Breese M., M. D., 5711 Elgin Ave., Pittsburgh, Pa. (60). **K**

Dickinson, Charles, Lock Box 788, Central Station, Chicago, Ill. (58).

*Dickinson, Hobart Cutler, Ph. D., Bureau of Standards, Washington, D. C. (60). 1910. **B**

Dickson, Archibald A. C., E. M., Kodarma E. I. Ry., Gaya District, India. (60). **B**

Dickson, Ernest C., 2294 Broderick St., San Francisco, Cal. (65).

Dickson, Samuel, LL. D., 901 Clinton St., Philadelphia, Pa. (65).

*Didier, Paul, C. E., B. & O. R. R. Co., N. S., Pittsburgh, Pa. (60). 1915. **D**

*Diemer, Hugo, Professor of Mechanical Engineering, Pennsylvania State College, State College, Pa. (49). 1911. **D L**

Dietz, William G., M. D., 21 North Vine St., Hazleton, Pa. (54). **K**

*Dike, Paul Harrison, 1610 University Ave., Columbia, Mo. (60). 1910. **B**

*Diller, Joseph Silas, U. S. Geological Survey, Washington, D. C. (52). 1903. **E**

Dillman, Arthur C., U. S. Experiment Station, Newell, S. D. (63). G
Dilworth, James A., M. D., Aberdeen, Miss. (60). K
*Dimick, Chester Edward, 396 Lowell St., Manchester, N. H. (60). 1911. A
*Dimmock, George, Ph. D., 531 Berkshire Ave., Springfield, Mass. (22). 1874. F
*Dimock, George E., 907 North Broad St., Elizabeth, N. J. (57). 1913.
Dimon, Miss Abigail Camp, 367 Genesee St., Utica, N. Y. (50). F K
Dingledine, Raymond Carlyle, P. O. Box 225, University, Va. (65). B
Dinkey, Alva Clymer, E. E., President, Carnegie Steel Co., Pittsburgh, Pa. (50). D
Dinwiddie, Albert Bledsoe, Ph. D., Dean, Department of Arts and Sciences, Tulane University, New Orleans, La. (63).
Disbrow, William S., M. D., 151 Orchard St., Newark, N. J. (51). G K
Disston, William D., Norwood Ave., Chestnut Hill, Philadelphia, Pa. (66).
*Ditman, Norman Edward, M. D., Ph. D., 24 East 48th St., New York, N. Y. (58). 1911. K
Diven, John M., C. E., Superintendent of Water Works, Troy, N. Y. (60). D
*Dixon, Roland Burrage, Ph. D., Assistant Professor of Anthropology, Peabody Museum, Cambridge, Mass. (46). 1901. H
Dixon, Sam H., State Department of Agriculture, Houston, Texas. (65). G M
*Dixon, Samuel Gibson, M. D., LL. D., President, Academy of Natural Sciences, Philadelphia, Pa. (50). 1906. F K
*Doan, Frank Carleton, Ph. D., 4 Waldron Ave., Summit, N. J. (58). 1911. H
Doan, Martha, Vassar College, Poughkeepsie, N. Y. (60). A
*Doane, Prof. Rennie Wilbur, 527 Homer Ave., Palo Alto, Cal. (60). 1914. F
DOBBIN, FRANK, P. O. Box 197, Shushan, N. Y. (64).
*Dock, George, M. D., Sc. D., Professor of Medicine, Washington University Medical School, St. Louis, Mo. (51). 1903. K
Dodds, Gideon Stanhope, Ph. D., Professor of Zoology, University of Missouri, Columbia, Mo. (57). F
Dodds, Robert, M. D., 144 Oakwood Boulevard, Chicago, Ill. (58). K
Dodge, Bernard O., Ph. D., Columbia University, New York, N. Y. (66).
*Dodge, Charles Wright, Professor of Biology, University of Rochester, Rochester, N. Y. (39). 1898. F G K
Dodge, Homer L., Department of Physics, State University of Iowa, Iowa City, Iowa. (66). B
*Dodge, Raymond, Ph. D., Professor of Psychology, Wesleyan University, Middletown, Conn. (58). 1911. H
*Dodge, Richard Elwood, Professor of Geography, Teachers College, Columbia University, New York, N. Y. (49). 1901. E L
Dodman, Alfred C., Jr., 22 Oakridge Ave., Summit, N. J. (50).
*Dodson, John Milton, M. D., Professor of Medicine and Dean of Students, Rush Medical College, Chicago, Ill. (54). 1906. C K

*Dodson, William Rufus, Professor of Agriculture and Director, State Experiment Station, Baton Rouge, La. (54). 1906. G M

Doering, Prof. C. E., Bryn Athyn, Pa. (60). A

Doherty, Henry Latham, M. E., 60 Wall St., New York, N. Y. (48). B D

*Dohme, Alfred R. L., Ph. D., 303 West Pratt St., Baltimore, Md. (60). 1911. C

*Dohmen, Franz Joseph, Ph. D., 21 Walker St., Cambridge, Mass. (57). 1910. A

Dole, Rev. Charles Fletcher, D. D., 14 Roanoke Ave., Jamaica Plain, Mass. (50). I

*Doll, Edgar A., Vineland Training School, Vineland, N. J. (64). 1914. H

*Dolley, David Hough, M. D., Professor of Bacteriology and Pathology, University of Missouri, Columbia, Mo. (64). 1915. K

Dolley, William Lee, Jr., Biological Laboratory, Randolph-Macon College, Ashland, Va. (65). F

Dolson, Grace Neal, Ph. D., Assistant Professor of Philosophy, Smith College, Northampton, Mass. (60). H

*Dolt, Maurice Louis, Ph. D., Professor of Organic and Analytical Chemistry, North Dakota Agricultural College, Fargo, N. D. (58). 1911. C

Donaghho, J. S., Professor of Mathematics, College of Hawaii, Honolulu, Hawaii. (66). A

*Donaldson, Henry Herbert, Sc. D., Ph. D., Professor of Neurology, Wistar Institute of Anatomy, Philadelphia, Pa. (54). 1906. K

Dondlinger, Peter Tracy, Ph. D., Box 82, Stamford, Conn. (58). I

Doneghue, Ray C., Professor of Agronomy, Agricultural Experiment Station, Fargo, N. D. (66). M

Donlon, Dr. A. J., S. J., Georgetown University, Washington, D. C. (62).

Donovan, Joseph L., University of Santa Clara, Santa Clara, Cal. (66).

Doolittle, Alfred A., 1331 Belmont St., Washington, D. C. (62).

*Doolittle, Charles Leander, C. E., Sc. D., LL. D., 4510 Walnut St., Philadelphia, Pa. (25). 1885. A

*Doolittle, Eric C. E., Professor of Astronomy, University of Pennsylvania, Philadelphia, Pa. (58). 1911. A

*Doolittle, Roscoe Edward, 109 Hillside Ave., Glen Ridge, N. J. (60). 1911. C

Doran, Edwin Wortham, Ph. D., Benton, La. (54). F

Dorne, Mrs. Nelly Waterhouse, care California Academy of Sciences, 343 Sansome St., San Francisco, Cal. (65).

*Dorner, Herman Bernard, Assistant Professor of Floriculture, University of Illinois, Urbana, Ill. (57). 1911. G

Dorr, Henry I., M. D., 128 Summer St., Somerville, Mass. (60). K

*Dorset, Marion, M. D., Bureau of Animal Industry, U. S. Department of Agriculture, Washington, D. C. (58). 1909. C K

*Dorsey, George Amos, Ph. D., LL. D., Field Museum of Natural History; Chicago, Ill. (39). 1892. H

*Dorsey, Herbert Grove, Ph. D., 1034 Grand Ave., Dayton, Ohio. (51). 1909. B

Dorsey, Maxwell Jay, Ph. D., University Farm, St. Paul, Minn. (64). G

*Dorsey, N. Ernest, Ph. D., Bureau of Standards, Washington, D. C. (46). 1898. **B**

Doster, James Jarvis, Professor of Philosophy and Education, University of Alabama, Tuscaloosa, Ala. (61). **L**

Doter, S. B., University of Nevada, Reno, Nev. (65).

Doty, Paul, President and General Manager, St. Paul Gas Light Co., St. Paul, Minn. (43). **D**

*Doubt, Thomas Eaton, Ph. D., 286 Laurel Ave., Chicago, Ill. (48). 1909. **B**

*Doughty, Howard Waters, Ph. D., Associate Professor of Chemistry, Amherst College, Amherst, Mass. (58). 1911. **C**

Doughty, William Henry, Jr., M. D., 822 Greene St., Augusta, Ga. (58). **K**

Douglas, J. S., Bin 7, Bakersfield, Cal. (63).

*Douglas, James, LL. D., 99 John St., New York, N. Y. (49). 1905. **E**

Douglass, Alfred, Clyde St., Brookline, Mass. (57).

*Douglass, Andrew Ellicott, Sc. D., Professor of Physics and Astronomy, University of Arizona, Tucson, Ariz. (58). 1913. **A B**

Douglass, George Lyon, 108 So. La Salle St., Chicago, Ill. (55). **I**

Douglass, Thomas, M. D., Ozark, Ark. (60). **K**

Doulton, Mrs. Leslie, P. O. Box 302, Santa Barbara, Cal. (61). **H**

Douthitt, Herman, Assistant Professor of Zoology, University of Kansas, Lawrence, Kans. (65). **F**

*Douty, Daniel Ellis, 340 Hudson St., New York, N. Y. (58). 1910. **B**

*Dow, Edmund Le Roy, M. D., 49 West 57th St., New York, N.Y. (57). 1908. **K L**

Dow, Herbert H., Midland, Mich. (47). **C**

*Dowd, Jerome, University of Oklahoma, Norman, Okla. (55). 1906. **H I**

*Dowell, Philip, Ph. D., 86 Bond St., Port Richmond, N. Y. (50). 1911. **G**

Downey, James H., M. D., 28 Green St., Gainesville, Ga. (60). **K**

Downing, Bertha C., M. D., 4 Downing St., Worcester, Mass. (65). **K**

*Downing, Eliot Rowland, Ph. D., Associate Professor of Natural History, University of Chicago, Chicago, Ill. (51). 1911. **F L**

Downing, G. J., Moscow, Idaho. (66).

Downs, Norton, M. D., Fordhooke Farm, Three Tuns, Pa. (52). **K**

Draege, Mathilde, 924 Madison Ave., New York, N. Y. (60). **E**

Drake, Bryant S., Chemical Engineer, 5930 Colby St., Oakland, Cal. (60). **C**

Drake, George Silas, Jr., M. D., 405 Humboldt Building, St. Louis, Mo. (60). **K**

Drake, Grandison W., M. D., Hollins Institute, Hollins, Va. (60). **K**

*Drake, Noah Fields, Ph. D., Professor of Geology and Mining, University of Arkansas, and State Geologist, Geological Survey of Arkansas, Fayetteville, Ark. (57). 1909. **E**

Drake, William Allen, 946 Cottage Grove Ave., Dayton, Ohio. (64).

Drane, Walter Hugh, Professor of Civil Engineering, Cumberland University, Lebanon, Tenn. (58). **D**

*DRAPER, DANIEL, Ph. D., Hastings upon Hudson, N. Y. (29). 1881. **A B D F**

*Draper, Mrs. Henry, 271 Madison Ave., New York, N. Y. (49). 1906.

*Dresbach, Melvin, M. D., Assistant Professor of Pharmacology, Cornell University, Ithaca, N. Y. (60). 1911. **K**

Drescher, William A. E., Bausch & Lomb Optical Co., Rochester, N. Y. (41). **F**

*Dresden, Arnold, Ph. D., 2114 Vilas St., Madison, Wis. (60). 1911. **A**

*Dresser, John Alexander, 327 Victoria Ave., Westmount, Quebec, Canada. (63). 1913.

*Dresslar, Fletcher Bascom, Ph. D., Professor of School Hygiene, George Peabody College, Nashville, Tenn. (65). 1915. **L**

Drew, Frank C., Balboa Building, San Francisco, Cal. (64).

*Drew, Gilman Arthur, Ph. D., Asst. Director, Marine Biological Laboratory, Woods Hole, Mass. (54). 1906. **F**

Drew, Lena S., Woods Hole, Mass. (65). **F**

*Dreyer, George Peter, Ph. D., Professor of Physiology and Physiological Chemistry, University of Illinois, Urbana, Ill. (58). 1909. **C K**

*Drinker, Henry Sturgis, LL. D., President, Lehigh University, South Bethlehem, Pa. (55). 1912. **D I**

*DROPPERS, GARRETT, Professor of Economics, Williams College, Williamstown, Mass. (50). 1901. **I**

*Drowne, Henry B., C. E., Asst. Highway Engineer, Columbia University, New York, N. Y. (60). 1915. **D**

Drucker, Aaron P., 6050 Monroe Ave., Chicago, Ill. (61).

Drum, John S., Savings Union Bank and Trust Co., San Francisco, Cal. (65).

*Drummond, Isaac Wyman, Ph. D., 436 West 22d St., New York, N. Y. (36). 1911. **C**

*Drushel, J. Andrew, Professor of Nature Study and Geology, Harris Teachers College, St. Louis, Mo. (58). 1911. **C E L**

*Drushel, William Allen, 329 Ellsworth Ave., New Haven, Conn. (61). 1914. **C**

*Dryer, Charles Redway, M. D., Fort Wayne, Ind. (50). 1903. **E L**

Duane, Alexander, M. D., 149 East 37th St., New York, N. Y. (54). **A H K**

*Duane, William, Ph. D., Harvard Medical School, Boston, Mass. (50). 1901. **B**

Dublin, Louis I., Ph. D., 1 Madison Ave., New York, N. Y. (58). **F G H K**

*DUBOIS, AUGUSTUS JAY, Ph. D., Professor of Civil Engineering, Sheffield Scientific School, New Haven, Conn. (30). 1882. **A B D**

Du Bois, Ernest, E. M., P. O. Box 5115, Mexico, D. F., Mexico. (60). **D**

*Dubois, Norman Armin, Ph. D., Case School of Applied Science, Cleveland, Ohio. (58). 1911. **C**

*Du Bois, Patterson, 401 South 40th St., Philadelphia, Pa. (33). 1887. **H I L**

*Du Bois, W. E. Burghardt, Ph. D., 70 Fifth Ave., New York, N. Y. (50). 1905. **I**

*Duckwall, Edward Wiley, Bacteriologist and Food Specialist, Aspinwall, Pa. (53). 1911. **C**

*Dudgeon, Prof. Winfield, University of Chicago, Chicago, Ill. (62). 1915. **F**

Dudley, William H., Platteville, Wis. (62). **F**

*Duerden, James Edwin, Ph. D., Professor of Zoology, Rhodes University College, Grahamstown, South Africa. (52). 1905. **F G K L**

*Dugan, Raymond Smith, Ph. D., Assistant Professor of Astronomy, Princeton University Observatory, Princeton, N. J. (55). 1907. **A B**

Dugan, William James, M. D., 2224 South Broad St., Philadelphia, Pa. (57). **K**

Duggan, Malone, M. D., Gibbs Building, San Antonio, Tex. (60). **K**

*Duggar, Benjamin Minge, Ph. D., Missouri Botanical Garden, St. Louis, Mo. (45). 1900. **G**

*Duggar, John Frederick, Director, Agricultural Experiment Station, Auburn, Ala. (65). 1914. **G L**

*Duke, Prof. Frank Williamson, Virginia Mechanics Institute, Richmond, Va. (50). 1906. **A**

Dukes, C. A., M. D., 6000 Claremont Ave., Oakland, Cal. (66). **K**

*Dumble, Edwin Theodore, Consulting Geologist, Southern Pacific Co., 2003 Main St., Houston, Tex. (37). 1891. **C E**

Dummer, Edward Lee, American Hosiery Co., New Britain, Conn. (61). **B H**

Dumont, Frederick T. F., American Consul, Florence, Italy. (64). **D**

Duncan, Frederick N., Ph. D., Livingston Hall, Columbia University, New York, N. Y. (50). **C F**

*Duncan, George Martin, LL. D., Professor of Philosophy, Yale University, New Haven, Conn. (50). 1902. **H L**

Duncan, James H., C. E., Searsport, Me. (58). **D**

*Duncan, John Charles, Ph. D., 69 Wendell St., Cambridge, Mass. (62). 1911. **A**

Duncan, Kenneth W., 811 6th Avenue, No., Quincy, Ill. (63). **F G**

Duncan, Ralph Winfred, Ph. D., Department of Physics, University of Pennsylvania, Philadelphia, Pa. (66). **B**

Duncan, Robert Carithers, Ph. D., Department of Physics, University of Pennsylvania, Philadelphia, Pa. (66). **B**

DUNCANSON, HENRY BRUCE, 1913 14th Ave., North, Seattle, Wash. (50). **F**

Dungay, Neil Stanley, Ph. D., Department of Zoology, Carleton College, Northfield, Minn. (62). **F**

DUNHAM, CARROLL, M. D., Hillside, Irvington, N. Y. (57). **K**

*Dunham, Edward Kellogg, M. D., 35 East 68th St., New York, N. Y. (30). 1890. **C K**

Dunham, Herbert Franklin, C. E., 220 Broadway, New York, N. Y. (60). **D**

Dunham, Kennon, M. D., 2503 Auburn Ave., Cincinnati, Ohio. (65).

Dunham, Theodore, M. D., 48 East 63d St., New York, N. Y. (57). **K**

Dunipace, Joseph Evans, 2329 Parkwood Ave., Toledo, Ohio. (57). **C**

Duniway, Clyde Augustus, Ph. D., President, University of Wyoming, Laramie, Wyo. (64).

Dunkle, Wesley Earl, Valdez, Alaska. (65).

Dunlap, Frederick, Ph. D., Department of Forestry, University of Missouri, Columbia, Mo. (62). **B G M**

*Dunlap, Frederick Levy, Sc. D., 5625 Dorchester Ave., Chicago, Ill. (63). 1915. **C**

*Dunlap, Knight, Ph. D., Associate Professor of Psychology, Johns Hopkins University, Baltimore, Md. (58). 1911. **H L**

Dunlap, Will Knox, E. E., Westinghouse Electric and Mfg. Co., Pittsburgh, Pa. (60). **D**

Dunlap, William, M. D., 661 Cass Ave., Detroit, Mich. (58). **K**

*Dunlevy, Prof. Robert Baldwin, 302 College St., Winfield, Kans. (50). 1909. **C E F**

Dunn, Arthur D., M. D., 1005 So. 29th St., Omaha, Nebr. (60). **K**

Dunn, E. A. A., M. D., Platteville, Wis. (60). **K**

*Dunn, Elizabeth Hopkins, M. D., Woods Hole, Mass. (58). 1913. **F K**

Dunn, Gano, E. E., President, J. G. White Engineering Corporation, New York, N. Y. (50). **A B D E**

Dunn, Grace Adelaide, Johns Hopkins University, Baltimore, Md. (66). **G**

Dunn, Ira J., M. D., New Masonic Temple, Erie, Pa. (51). **K L**

Dunnican, J. F., P. O. Box 324, Rochester, N. Y. (63).

*Dunnington, Francis Perry, Professor of Chemistry, University of Virginia, Charlottesville, Va. (26). 1880. **C E**

DUNSCOMBE, GEORGE ELLSWORTH, 43 East 51st St., New York, N.Y. (57).

Dunster, Carl B., E. M., 11 Pine St., New York, N. Y. (60). **D**

Dunyon, Newton A., E. M., 23 H St., Salt Lake City, Utah. (55). **D E**

du Pont, Alfred I., Wilmington, Del. (60). **C**

du Pont, Irenee, Wilmington, Del. (63). **C**

du Pont, Pierre S., Wilmington, Del. (57). **C**

*Durand, Elias Judah, Sc. D., Assistant Professor of Botany, University of Missouri, Columbia, Mo. (41). 1899. **G**

Durand, Mrs. Frederic F., Maplewood, N. J. (58).

*Durand, William Frederick, Ph. D., Professor of Mechanical Engineering, Leland Stanford Junior University, Stanford University, Cal. (37). 1890. **B D**

Durant, William B., Turners Falls, Mass. (61).

Durfee, Philip Sherwood, P. O. Box 1382, Boston, Mass. (63). **C E**

Durfee, Walter Chaloner, 2d, 62 Holbrook St., Jamaica Plain, Mass. (56). **D**

*Durfee, William Pitt, Ph. D., Dean, Hobart College, Geneva, N. Y. (46). 1899. **A**

Durkee, Eugene W., 534 Washington St., New York, N. Y. (57). **D E**

*Durkee, Frank Williams, Professor of Chemistry, Tufts College, Tufts College, Mass. (58). 1910. **C**

Durrant, Edwin Poe, Assistant Professor of Anatomy and Physiology, Ohio State University, Columbus, Ohio. (62). **K**

Durrell, Harold Clarke, 36 Bartlett Ave., Arlington, Mass. (57). **E**

Durst, Fred. M., 1518 Buena Ave., Berkeley, Cal. (66).

Durward, Arthur, Principal, High School, Lordsburg, Cal. (60). **B**

Duryee, Albert P., M. D., American National Bank Building, Everett, Wash. (60). **K**

Dutton, Charles Frederic, Jr., 4816 Franklin Ave., Cleveland, Ohio. (47). **B C E**

Dutton, Walter Forest, M. D., 524 Beechwood Ave., Carnegie, Pa. (60). **K**

*Duval, Charles Warren, M. D., Professor of Pathology and Bacteriology, Tulane University, New Orleans, La. (62). 1911. **K**

*Duval, Edmund P. R., 427 West Boyd St., Norman, Okla. (50). 1906. **A**

*Duvall, Charles R., Carnegie Institution of Washington, Washington, D. C. (65). 1915. **A**

*Duvall, Trumbull Gillette, Ph. D., Professor of Psychology and Philosophy, Ohio Wesleyan University, Delaware, Ohio. (52). 1906. **H I L**

*Duvel, Joseph W. T., Sc. D., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (48). 1905. **G**

Dwight, Charles A. S., Ph. D., Oak Bluffs, Mass. (65). **H**

*Dwight, Jonathan, Jr., M. D., 134 West 71st St., New York, N. Y. (49). 1906. **F**

Dwight, Mrs. Melatiah E., 31 Mt. Morris Park, West, New York, N. Y. (57).

Dyar, Burt A., M. D., De Smet, S. D. (60). **K**

*Dyar, Harrison Gray, Ph. D., U. S. National Museum, Washington, D. C. (43). 1898. **F**

*Dyer, Isadore, M. D., Dean, School of Medicine and Pharmacy, Tulane College of Medicine, New Orleans, La. (60). 1915. **K**

Dymond, John R., Seed Laboratory, Ottawa, Canada. (64). **G**

Dysart, Paul Moore, 220 Coltart Square, Pittsburgh, Pa. (58). **B D L**

Eagleson, James B., M. D., 512 Burke Building, Seattle, Wash. (51). **K**

*Eakle, Arthur Starr, Ph. D., Associate Professor of Mineralogy, University of California, Berkeley, Cal. (65). 1915. **E**

Earle, Baylis H., M. D., U. S. Quarantine Station, Port Townsend, Washington. (60). **K**

*Earle, Prof. Franklin Sumner, Herradura, Cuba. (39). 1896. **G**

Earll, Charles Isaac, M. E., 159 West 105th St., New York, N. Y. (52). **D**

*East, Edward Murray, Ph. D., Assistant Professor of Experimental Plant Morphology, Bussey Institution, Forest Hills, Boston, Mass. (57). 1911. **C G**

*Eastman, Charles Rochester, Ph. D., American Museum of Natural History, New York, N. Y. (41). 1896. **E F**

Easton, Charles D., M. D., 36 Ayrault St., Newport, R. I. (60). **K**

Easton, Christopher, R. F. D. 2, White Bear Lake, Minn. (52). **I K**

Eastwick, Beatrice M. Hinkle, M. D., 115 East 31st St., New York, N. Y. (60). **K**

*Eastwood, Miss Alice, California Academy of Sciences, San Francisco, Cal. (50). 1901. **G**

*Eaton, Elon Howard, Professor of Biology, Hobart College, Geneva, N. Y. (52). 1906. **F M**

*Eaton, George Francis, Ph. D., Curator of Osteology, Peabody Museum, New Haven, Conn. (54). 1906. **E**

*Eaton, Harry Nelson, 302 South Burrows St., State College, Pa. (56). 1911. **E**

Eaton, William S., 86 Trinity Place, New York, N. Y. (57).

*Ebaugh, William Clarence, Ph. D., Director, Department of Chemistry, University of Utah, Salt Lake City, Utah. (54). 1906. **C L**

Eberle, E. G., P. O. Box 1539, Dallas, Texas. (64).

Eby, Prof. Frederick, University of Texas, Austin, Texas. (65).

*Eccles, David Charles, M. D., 191 Dean St., Brooklyn, N. Y. (50). 1911. **C**

*Eccles, Robert Gibson, M. D., 681 10th St., Brooklyn, N. Y. (31). 1894. **C G K**

*Echols, Charles Patton, Lieut.-Colonel, U. S. A., Professor of Mathematics, U. S. Military Academy, West Point, N. Y. (58). 1914. **A B D L**

*Eckart, Charles Franklin, Director, H. S. P. Experiment Station, Honolulu, Hawaii. (53). 1911. **C**

Eckersley, Joseph Oscar, C. E., 4269 White Plains Ave., New York, N. Y. (58). **A B D**

*Eckerson, Sophia Hennion, Department of Botany, University of Chicago, Chicago, Ill. (62). 1915. **G**

Eckhardt, Englehardt August, Ph. D., Assistant Professor of Physics, University of Pennsylvania, Philadelphia, Pa. (66). **B**

Eckhardt, William George, DeKalb, Ill. (64). **C G M**

Eckhart, Percy Bernard, First National Bank Building, Chicago, Ill. (58). **I**

*Eddy, Clarence Leroy, C. E., Assistant Professor of Railway Engineering, Case School of Applied Science, Cleveland, Ohio. (63). 1915. **D**

*Eddy, Henry Turner, Sc. D., Ph. D., LL. D., Dean Emeritus, Graduate School, University of Minnesota, Minneapolis, Minn. (24). 1875. **A B D**

Eddy, Milton Walker, Head, Department of Zoology, Pennsylvania State College, State College, Pa. (62). **F**

Eddy, Walter Hollis, Ph. D., Associate in Biochemistry, Columbia University, New York, N. Y. (60). **C F K**

Ede, J. A., E. M., La Salle, Ill. (63). **D**

Edgar, Thomas Oscar, M. D., 3858 Westminster Place, St. Louis, Mo. (53). **K**

*Edgerton, Claude Wilbur, Ph. D., Professor of Plant Pathology, State Experiment Station, Baton Rouge, La. (56). 1911. **G**

Edington, Will E., Professor of Mathematics, University of New Mexico, Albuquerque, N. M. (65). **A**

Edmonds, Harry M. W., M. D., 36th St. and Broad Branch Road, Washington, D. C. (65). **A B K**

*Edmunds, Charles Keyser, Ph. D., President, Canton Christian College, Canton, China. (58). 1910. **A B D**

Edquist, Joshua Anderson, Professor of Natural Science, Gustavus Adolphus College, St. Peter, Minn. (61). **E F G**

*Edsall, David Linn, M. D., 80 Marlborough St., Boston, Mass. (60). 1911. **K**

*Edson, Howard Austin, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (60). 1913. **G**

Edwards, Alice Leora, Oregon State Agricultural College, Corvallis, Oregon. (65). **G**

*Edwards, Charles Lincoln, Ph. D., Director, Department of Nature Study, City Schools, Los Angeles, Cal. (49). 1900. **F L**

Edwards, Dayton J., 505 West 124th St., New York, N. Y. (63). **K**

Edwards, Edwin H., 7317 Clinton Ave., N. W., Cleveland, Ohio. (58). **F G K**

EDWARDS, J. WARNER, E. M., 1347 Court Place, Denver, Colo. (58). **D**

Edwards, William Franklin, R. F. D. 4, Houston, Texas. (62). **C**

Eells, Charles P., Insurance Exchange Building, San Francisco, Cal. (65).

Egbert, J. Hobart, M. D., 114 Spring St., Willimantic, Conn. (55). **F K**

Egdahl, Anfin, M. D., Menomonie, Wis. (58). **K**

Egerton, John B., 325 East 20th St., Baltimore, Md. (60). **F**

Eggen, Halsten Olson, 634 French St., Santa Ana, Cal. (65). **B**

*Eggleston, Willard Webster, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (57). 1909. **G**

Ehman, Joseph W., 145 North 10th St., Philadelphia, Pa. (60). **C**

Ehmke, W. C., M. D., Willow River, Minn. (60). **K**

*Ehrenfeld, Charles Hatch, Ph. D., Professor of Chemistry and Physics, Collegiate Institute, York, Pa. (54). 1911. **B C**

*Ehrenfeld, Frederick, Ph. D., Assistant Professor of Geology and Mineralogy, University of Pennyslvania, Philadelphia, Pa. (50). 1911. **E**

*Ehrhorn, Edward Macfarlane, care Board of Agriculture and Forestry, Honolulu, Hawaii. (50). 1906. **F M**

*Eichelberger, William Snyder, Ph. D., Professor of Mathematics, U. S. Naval Observatory, Washington, D. C. (41). 1896. **A**

Eidlitz, Otto Marc, C. E., 30 East 42d St., New York, N. Y. (57). **D**

Eidlitz, Robert James, 995 Madison Ave., New York, N. Y. (57).

*Eiesland, John A., Ph. D., Department of Mathematics, West Virginia University, Morgantown, W. Va. (50). 1903. **A**

*Eigenmann, Carl H., Ph. D., Research Professor of Zoology, Indiana University, Bloomington, Ind. (48). 1899. **F**

*Eikenberry, W. L., School of Education, University of Chicago, Chicago, Ill. (64). 1915. **L**

Eilers, Anton, E. M., 751 St. Mark's Ave., Brooklyn, N. Y. (50). **D E**

Eimer, August, 190 Riverside Drive, New York, N. Y. (50).

*Einarsson, Sturla, Ph. D., University of California, Berkeley, Cal. (63). 1913. **A**

*Eisenhart, Luther Pfahler, Ph. D., Professor of Mathematics, Princeton University, Princeton, N. J. (60). 1910. **A**

Eisenhart, M. H., 371 Barrington St., Rochester, N. Y. (63).

Eisenhauer, John H., Professor of Physics and Geometry, McKeesport High School, McKeesport, Pa. (60). **A B**

*Ekblaw, Walter Elmer, University of Illinois, Urbana, Ill. (63). 1915. **E**

*Ekeley, John Bernard, Ph. D., Professor of Chemistry, University of Colorado, Boulder, Colo. (62). 1915. **C**

Elder, E. Waite, 1300 Pontiac St., Denver, Colo. (50). **C**

Eldred, Frank R., 3325 Kenwood Ave., Indianapolis, Ind. (57). **C**

*Eliot, Charles William, M. D., LL. D., Cambridge, Mass. (61). 1910. **L**

*Elkin, William Lewis, Ph. D., Yale University, New Haven, Conn. (33). 1885. **A**

Elkus, Abram I., 170 Broadway, New York, N. Y. (57).

Elkus, Savilla Alice, Ph.D., Vassar College, Poughkeepsie, N. Y. (65).

*Ellard, Charles Henry, Great Neck, Long Island, N. Y. (58). 1911. **C F L**

*Ellerman, Ferdinand, Assistant Astrophysicist, Mt. Wilson, Cal. (58). 1913. **A B**

Ellinwood, C. N., M. D., 2739 Pacific Ave., San Francisco, Cal. (60). **K**

Elliot, George Thomson, M. D., 128 East 35th St., New York, N. Y. (50). **F K**

Eliot, Thomas Lamb, LL.D., 426 Abington Building, Portland, Oreg. (66).

Elliott, Charles H., 997 Spring Garden St., Greensboro, N. C. (60). **A**

Elliott, E. L., 12 West 40th St., New York, N. Y. (58). **B**

*Elliott, Edward Charles, Ph. D., Professor of Education and Director of Course of the Training of Teachers, University of Wisconsin, Madison, Wis. (58). 1910. **I L**

*Ellis, A. Caswell, Ph. D., Professor of Education, University of Texas, Austin, Tex. (52). 1910. **I K L**

Ellis, Charles E., Iowa State College, Ames, Iowa. (60). **C D E**

*Ellis, Frederick Warren, M. D., Monson, Mass. (47). 1906. **B K**

Ellis, Henry Rives, E. M., 148 Pierpont St., Salt Lake City, Utah. (53). **C D E**

*Ellis, Max Mapes, Ph. D., Assistant Professor of Biology, University of Colorado, Boulder, Colo. (58). 1915. **F K**

Ellison, Daniel, 512 Equitable Building, Baltimore, Md. (61).

Ellison, William Bruce, 165 Broadway, New York, N. Y. (65).

Ells, Gordon W., care 27th Infantry, Texas City, Texas. (65). **F**

Ellwood, Charles A., Professor of Sociology, University of Missouri, Columbia, Mo. (63). **H I**

Elmore, Clarence J., R. F. D. 5, Grand Island, Nebraska. (62).

*Elrod, Morton John, Ph. D., Professor of Biology, University of Montana, Missoula, Mont. (50). 1901. **F**

*Elsberg, Charles A., M. D., Madison Ave. and 63d St., New York, N. Y. (57). 1908. **K**

Elsom, Harry E., Masontown, Pa. (58). **C**

Elton, Howard L., E. M., Oaxaca, Oaxaca, Mexico. (60). **D**

*Ely, Charles Russell, Ph. D., Professor of Natural Science, Gallaudet College, Washington, D. C. (52). 1911. **C E**

Ely, John A., Professor of Surveying and Engineering, St. Johns University, Shanghai, China. (65). **D**

Ely, Sumner Boyer, M.E., 5122 Pembroke Place, Pittsburgh, Pa. (50). **D**

*Ely, Theodore Newel, Sc. D., Bryn Mawr, Pa. (29). 1886. **D**

Emanuel, John Henderson, Jr., Equitable Bldg., 120 Broadway, New York, N. Y. (65).

Embody, George Charles, Ph. D., Assistant Professor of Agriculture, Cornell University, Ithaca, N. Y. (61). **G**

*Emch, Arnold, Ph. D., Professor of Mathematics, University of Illinois, Urbana, Ill. (63). 1914. **A**

*Emelianoff, I. V., Agricultural Experiment Station, Charkow, Russia. (62). 1914. **F**

*Emerson, Benjamin Kendall, Ph. D., P. O. Box 203, Amherst, Mass. (19). 1877. **E**

*EMERSON, PROF. CHARLES FRANKLIN, P. O. Box 499, Hanover, N. H. (22). 1874. **A B**

*Emerson, Charles P., M. D., 3177 No. Pennsylvania St., Indianapolis, Ind. (58). 1909. **K**

*Emerson, Herbert W., 1113 College St., Ann Arbor, Mich. (60). 1911. **C**

Emerson, R. L., 1808 I St., N. W., Washington, D. C. (63).

EMERSON, MRS. RAYMOND, Concord, Mass. (64).

*Emerson, Rollins Adams, Ph. D., Department of Plant Breeding, Cornell University, Ithaca, N. Y. (63). 1915. **F**

*Emery, Albert Hamilton, 788 Main St., Stamford, Conn. (29). 1884. **A B D**

Emery, William Lorenzo, E. E., 43 No. 7th West St., Salt Lake City, Utah. (60). **C D**

*Emery, William Orrin, Ph. D., 2232 Cathedral Ave., N. W., Washington, D. C. (53). 1909. C

*Emmel, Victor E., Ph. D., Associate Professor of Anatomy, Washington University Medical School, St. Louis, Mo. (58). 1911. K

Emmert, Edward J., M. D., Lawrenceburg, Ind. (58). K

*Emmett, Arthur Donaldson, P. O. Box 33, Mechanicsburg, Ill. (57) 1911. C K

Emmons, Newton W., M. E., 606 Hastings St., W., Vancouver, British Columbia. (58). D

*Emmons, William Harvey, Ph.D., Professor of Geology and Mineralogy, University of Minnesota, Minneapolis, Minn. (62). 1914. E

Emrich, William H., Marquette Club, Chicago, Ill. (58).

Enders, Prof. Henry C., Cooper Union, New York, N. Y. (60). C

*Enders, Howard Edwin, Ph. D., Assistant Professor of Zoology, Purdue University, La Fayette, Ind. (50). 1911. F

*Engberg, Carl Christian, Ph. D., Professor of Applied Mathematics, University of Nebraska, Lincoln, Nebr. (58). 1909. A

*Engelhardt, Francis Ernest, Ph. D., 405 City Hall, Syracuse, N. Y. (58). 1911. C

*Engelhardt, George P., 373 Ocean Ave., Brooklyn, N. Y. (58). 1915. F

*Engler, Edmund Arthur, Ph. D., LL. D., Washington University, St. Louis, Mo. (50). 1901. A D L

English, Walter A., U. S. Geological Survey, Washington, D. C. (65). E

*Ennis, William Duane, M. E., Professor of Mechanical Engineering, Polytechnic Institute, Brooklyn, N. Y. (58). 1915. D

ENO, A. F., 32 Fifth Ave., New York, N. Y. (50).

Ensign, William O., M. D., Rutland, Ill. (60). K

Epple, Fred, 10305 Euclid Ave., Cleveland, Ohio. (63).

Eppley, Marion, Princeton, N. J. (60). C

Epstean, Edward, 141 East 25th St., New York, N. Y. (57). I

Epstein, Albert Arthur, 995 Madison Ave., New York, N. Y. (63).

*Erdmann, Charles Andrew, M. D., Professor of Anatomy, University of Minnesota, Minneapolis, Minn. (58). 1913. K

*Erikson, Henry Anton, Ph. D., Assistant Professor of Physics, University of Minnesota, Minneapolis, Minn. (62). 1913. B

Erlandsen, Oscar, C. E., 100 East 34th St., New York, N. Y. (60). D

Erlanger, A., 65 Worth St., New York, N. Y. (57).

Erlanger, Joseph, M. D., Professor of Physiology, Washington University, St. Louis, Mo. (63). K

Ernest, Thomas Reuben, Ph. D., 908 State Life Building, Indianapolis, Ind. (58). C

*Erwin, Arthur Thomas, Associate Professor of Horticulture, Iowa State College, Ames, Iowa. (54). 1911. G

Esbjorn, Charles Linus Eugene, 9th Ave. and 34th St., Rock Island, Ill. (58). L

*Eshner, Augustus A., M. D., 1019 Spruce St., Philadelphia, Pa. (54). 1909. K

Espenschied, Charles, 3500 Washington Ave., St. Louis, Mo. (60).
Esquerre, Edmond, Professor of Chemistry, Carnegie Institute of Technology, Pittsburgh, Pa. (63). **C**
*Essary, Samuel Henry, Jackson, Tenn. (54). 1911. **G I**
Essenberg, Jacob M., 352 Greenwich St., Valparaiso, Ind. (65). **F**
*Essig, Edward Oliver, Department of Entomology, University of California, Berkeley, Cal. (62). 1915. **F G**
Estabrook, Arthur Frederic, 15 State St., Boston, Mass. (57).
Estabrook, Arthur H., Eugenics Record Office, Cold Spring Harbor, L. I., N. Y. (61). **F**
Estabrook, Edward L., Platteville, Wis. (63). **E**
*Esterly, Calvin Olin, Ph. D., Professor of Biology, Occidental College, Los Angeles, Cal. (53). 1911. **F**
Estes, R. Logan, M. D., Meredosia, Ill. (60). **K**
*Esty, Thomas Cushing, Professor of Mathematics, Amherst College, Amherst, Mass. (58). 1911. **A**
*Esty, William, Professor of Electrical Engineering, Lehigh University, South Bethlehem, Pa. (58). 1911. **D E**
Esty, William Cole, LL. D., 85 Elm St., Worcester, Mass. (60). **A**
*Eustace, Harry Joshua, Professor of Horticulture, Michigan Agricultural College, East Lansing, Mich. (64). 1915. **G**
*Evans, Alexander William, M. D., Ph. D., Professor of Botany, Yale University, New Haven, Conn. (45). 1903. **G K**
Evans, Arthur T., University of Colorado, Boulder, Colo. (65). **F G**
Evans, Benjamin Ellsworth, Bureau of Plant Industry, Kissimmee, Fla. (66). **G**
Evans, Britton Duroc, M. D., Greystone Park, N. J. (51). **H K**
Evans, Claude Maxey, Superintendent of Extension Work, A. and M. College of Texas, College Station, Texas. (62). **G**
Evans, Henry, President, Continental Fire Insurance Co., 80 Maiden Lane, New York, N. Y. (66). **I**
*Evans, Henry Brown, Ph. D., Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. (48). 1906. **A D**
Evans, James Rittenhouse, 3 High St., Pottstown, Pa. (58). **C**
Evans, John D., care C. O. Railway, Trenton, Ontario, Canada. (58). **D F**
Evans, Lawton Bryan, Superintendent, City Schools, Augusta, Ga. (65).
*Evans, Percy Norton, Ph. D., Professor of Chemistry, Purdue University, La Fayette, Ind. (58). 1910. **C**
Evans, Rowland, 1436 No. Alabama St., Indianapolis, Ind. (58). **I**
Evans, Samuel G., 330 Main St., Evansville, Ind. (39). **G**
*Evans, Walter Harrison, Ph. D., U. S. Department of Agriculture, Washington, D. C. (52). 1906. **G**
*Evans, William Lloyd, Ph. D., Assistant Professor of Chemistry, Ohio State University, Columbus, Ohio. (57). 1908. **C**
Eveland, Arthur John, E. M., 42 Broadway, New York, N. Y. (55). **D E**

Everette, Dr. Willis Eugene, 3512 South 11th St., Tacoma, Wash. (64). **A B C D E H K**

Everhart, Edgar, Ph. D., 150 North Jackson St., Atlanta, Ga. (62). **C**

*Evermann, Barton Warren, Ph. D., Director of Museum, California Academy of Sciences, San Francisco, Cal. (52). 1905. **F L**

Evers, Edward, M. D., 1861 North Market St., St. Louis, Mo. (28). **F H K**

Evvard, John Marcus, Assistant Chief in Animal Husbandry, Iowa Agricultural Experiment Station, Ames, Iowa. (64). **F**

*Ewell, Marshall Davis, M. D., LL. D., 155 No. Clark St., Chicago, Ill. (57). 1911. **B K**

Ewing, Early Cunningham, Mississippi Agricultural Experiment Station, Agricultural College, Miss. (61). **G**

*Ewing, Henry Ellsworth, Ph. D. 242 No. 12th St., Corvallis, Ore. (61). 1915. **F**

Ewy, Edwin W., Parlier, Cal. (62). **G**

*Eycleshymer, Albert Chauncey, Ph. D., Head, Department of Anatomy, College of Medicine, Congress and Honore Sts., Chicago, Ill. (53). 1906. **K**

*Eyerman, John, 56 North 4th St., Easton, Pa. (33). 1889. **C E**

*Eyster, John A. English, M. D., Professor of Physiology, University of Wisconsin, Madison, Wis. (57). 1909. **K**

Fackenthal, Frank Diehl, Secretary, Columbia University, New York, N. Y. (62).

[Fahrig, Ernst, 3642 Old York Road, Philadelphia, Pa. (51). **C**

[Fain, John R., Professor of Agronomy, Georgia State College of Agriculture, Athens, Ga. (64). **F G**

Fairbank, Alexander W., M. D., Chazy, N. Y. (60). **K**

Fairbanks, Floyd Cooper, 51 East Stratford Ave., Lansdowne, Pa. (66). **B**

*Fairbanks, Harold Wellman, Ph. D., P. O. Box 376, Berkeley, Cal. (58). 1910. **E L**

*Fairbanks, Rev. Henry, Ph. D., St. Johnsbury, Vt. (14). 1874. **A B D**

Fairchild, Benjamin Thomas, 76 Laight St., New York, N. Y. (36). **C K**

*Fairchild, David Grandison, 1331 Connecticut Ave., Washington, D. C. (47). 1898. **G**

*Fairchild, Herman LeRoy, Sc. D., Professor of Geology, University of Rochester, Rochester, N. Y. (28). 1883. **E**

Fairclough, Henry Rushton, Ph. D., Professor of Latin, Leland Stanford Junior University, Stanford University, Cal. (65).

Falconer, William, Supt., Allegheny Cemetery, Pittsburgh, Pa. (29).

Falding, Frederic John, Consulting Chemical Engineer, 55 Broadway, New York, N. Y. (50). **C**

*Falk, Kaufman George, Ph. D., 151 Central Park, West, New York, N. Y. (58). 1911. **B C**

Fallon, G. W. R., 281 Fourth Ave., New York, N. Y. (57).

Famulener, Lemuel William, M. D., 717 West 177th St., New York, N. Y. (60). **K**

*Farabee, William Curtis, Ph. D., University Museum, Philadelphia, Pa. (54). 1911. **H**

*Faris, Robert Lee, Assistant Superintendent, U. S. Coast and Geodetic Survey, Washington, D. C. (58). 1910. **B**

Farley, Godfrey Pearson, C. E., 319 Church St., Richmond Hill, N. Y. (51). **A B D E**

*Farley, John Herbert, Professor of Psychology and Philosophy, Lawrence College, Appleton, Wis. (64). 1914. **H**

Farlow, John W., M. D., 234 Clarendon St., Boston, Mass. (60). **K**

*Farlow, William Gilson, M. D., Ph. D., LL. D., Professor of Cryptogamic Botany, Harvard University, Cambridge, Mass. (20). 1875. **G**

Farnam, Henry Walcott, R. P. D., Professor of Economics, Yale University, New Haven, Conn. (62). **I**

Farnham, Dr. Amos W., Oswego, N. Y. (54). **E**

Farnsworth, Miss Alice, The Vendome, Boston, Mass. (60).

Farnsworth, Harry B., M. D., Montana Building, Missoula, Mont. (60). **K**

Farnsworth, Sidney Woods, 5718 Elgin Ave., Pittsburgh, Pa. (64). **D**

Farquhar, Arthur B., LL. D., President, A. B. Farquhar Co., Ltd., York, Pa. (66). **I**

*Farquhar, Henry, 1601 Park Road, Washington, D. C. (33). 1886. **A B G I**

Farr, Clifford H., 528 West 123d St., New York, N. Y. (63). **G**

*Farr, Marcus Stults, Sc. D., Princeton University, Princeton, N. J. (49). 1911. **E**

*Farrand, Livingston, M. D., President, University of Colorado, Boulder, Colo. (50). 1902. **H K**

Farrand, Wilson, Newark Academy, Newark, N. J. (61).

Farrell, Francis David, U. S. Department of Agriculture, Washington, D. C. (62). **C**

Farrington, Ernest A., M. D., President, Bancroft Training School, Haddonfield, N. J. (61). **K**

*Farrington, Frederic Ernest, Teachers College, Columbia University, New York, N. Y. (61). 1912. **L**

*Farrington, Oliver Cummings, Ph. D., Field Museum of Natural History, Chicago, Ill. (58). 1909. **E**

Farwell, Robert Benneson, C. E., 15 Beacon St., Boston, Mass. (47). **D**

*Fassig, Oliver Lanard, Ph. D., U. S. Weather Bureau, Baltimore, Md. (46). 1899. **B E L**

Fasten, Nathan, Ph. D., Department of Zoology, University of Washington, Seattle, Wash. (66). **F**

*Fath, Edward Arthur, Ph. D., President, Redfield College, Redfield, S. D. (63). 1913. **A**

*Faught, John Brookie, Ph. D., Kent, Ohio. (50). 1907. **A**

*Faull, Joseph Horace, Ph. D., Associate Professor of Botany, University of Toronto, Toronto, Canada. (54). 1909. **G**

Faure, Jacobus C., 84 Troye St., Pretoria, Union of South Africa. (63). **F**

*Favill, Henry Baird, M. D., 122 South Michigan Ave., Chicago, Ill. (58). 1909. **K**

*Fawcett, Howard Samuel, Southern California Pathological Laboratory, Whittier, Cal. (63). 1913. **G**

Fawcett, William P., M. D., Alderson, W. Va. (60). **K**

Fay, Charles Ralph, Crescent Athletic Club, Brooklyn, N. Y. (65). **I L**

Fay, Lewis George, Custom House, New York, N. Y. (50). **G**

Fegraeus, Torbern, Ph. D., care Nobel Brothers, Petrograd, Russia. (60). **D**

Feingold, Marcus, M. D., 124 Baronne St., New Orleans, La. (60). **K**

Fellows, Charles Sumner, 107 Chamber of Commerce, Minneapolis, Minn. (34). **F**

*Felt, Ephraim Porter, Sc. D., New York State Entomologist, Albany, N. Y. (44). 1899. **F**

Fender, Charles W., 2423 Durant Ave., Berkeley, Cal. (66).

Fenn, Robert Willson, C. E., Lindsay, Cal. (60). **D**

*Fenneman, Nevin M., Ph. D., University of Cincinnati, Cincinnati, Ohio. (51). 1904. **E**

Fenner, H. W., M. D., Tucson, Arizona. (65). **K**

Fenner, John Kelsey, Principal, Cranston High School, Auburn, R. I. (58). **A B C D E G**

*Ferguson, Alexander McGowan, Sherman, Texas. (51). 1905. **G**

*Ferguson, John Arden, Professor of Forestry, Pennsylvania State College, State College, Pa. (60). 1911. **G M**

*Ferguson, Margaret Clay, Ph. D., Professor of Botany, Wellesley College, Wellesley, Mass. (54). 1906. **G**

Ferguson, Meade, Ph. D., 28 North 9th St., Richmond, Va. (58). **C G I K**

Ferguson, Robert Henry, M. D., 9 North Munn Ave., East Orange, N. J. (60). **K**

Fergusson, Sterling Price, Professor of Meteorology and Climatology, University of Nevada, Reno, Nevada. (62). **A D**

*Fernald, Charles H., Ph. D., Massachusetts Agricultural College, Amherst, Mass. (58). 1913. **F**

*Fernald, Henry Torsey, Ph. D., Professor of Entomology, Massachusetts Agricultural College, Amherst, Mass. (58). 1910. **F**

*Fernald, Merritt Lyndon, Assistant Professor of Botany, Harvard University, Cambridge, Mass. (60). 1911. **G**

*Fernald, Robert Heywood, M. E., Ph. D., Professor of Dynamical Engineering, University of Pennsylvania, Philadelphia, Pa. (63). 1914 **D**

Fernberger, Samuel Weiller, Ph. D., Clark University, Worcester, Mass. (60).

*Fernekes, Gustave, Ph. D., Carnegie Institute of Technology, Pittsburgh, Pa. (57). 1909. **C**

*Fernow, Bernhard Eduard, LL. D., University of Toronto, Toronto, Canada. (31). 1887. **G I**

Ferrier, Walter F., E. M., 204 Lumsden Building, Toronto, Canada. (60). **D**

*Ferris, Harry Burr, M. D., Hunt Professor of Anatomy, Yale University, New Haven, Conn. (60). 1913. **F K**

*Ferry, Frederick Carlos, Sc. D., Ph. D., Dean and Professor of Mathematics, Williams College, Williamstown, Mass. (58). 1909. **A**

Ferry, Mansfield, 31 Nassau St., New York, N. Y. (58).

Fertig, James W., State Normal School, Murfreesboro, Tenn. (64).

Fetterman, John Colvin, Castle Shannon, Pa. (51). **E F**

*Fettke, Charles Reinhard, Ph. D., Carnegie Institute of Technology, Pittsburgh, Pa. (63). 1915. **E**

*Fewkes, J. Walter, Ph. D., LL. D. Bureau of American Ethnology, Smithsonian Institution, Washington, D. C. (48). 1900. **H**

Fiala, Anthony, 1302 Broadway, New York, N. Y. (60). **E**

*Field, Cyrus West, M. D., Pathological Department, Bellevue Hospital, New York, N. Y. (58). 1909. **K**

*Field, George Wilton, Ph. D., 158 State House, Boston, Mass. (60). 1911. **F**

*Field, Herbert Haviland, Ph. D., Director, Councilium Bibliographicum, Zurich-Neumünster Kollikerstr-9, Zurich, Switzerland. (54). 1908. **F**

Field, Irving Angell, Ph. D., Packachoag St., Auburn, Mass. (57). **F**

Field, Robert Franklin, 25 Wilson St., Providence, R. I. (63). **B D**

Field, Shirley Ernest, Williamston, Mich. (65). **B**

FIELD, WILLIAM B. OSGOOD, 645 Fifth Ave., New York, N. Y. (57).

*Field, William Lusk Webster, Milton Academy, Milton, Mass. (47). 1913. **E F L**

*FIELDE, ADELE MARION, The San Marco, 1205 Spring St., Seattle, Wash. (57). 1914. **F H**

Fielder, Edwin W., 35 West 32d St., New York, N. Y. (63).

*Fields, John Charles, Ph. D., Associate Professor of Mathematics, University of Toronto, Toronto, Canada. (60). 1910. **A**

*Finch, John Wellington, E. M., Symes Building, Denver, Colo. (50). 1911. **E**

Findlay, Merlin Chamberlin, Professor of Biology, Park College, Parkville, Mo. (50). **F**

Fine, Morris S., Ph. D., Adjunct Professor of Pathological Chemistry, New York Post-Graduate Medical School, New York, N. Y. (60). **C**

*Fink, Bruce, Ph. D., Professor of Botany, Miami University, Oxford, Ohio. (45). 1899. **G**

*Fink, Colin Garfield, Ph. D., care General Electric Co., Harrison, N. J. (60). 1911. **C**

*Finkel, Benjamin Franklin, Ph. D., Professor of Mathematics and Physics, Drury College, Springfield, Mo. (60). 1910. **A B**

Finley, Charles William, 216 North Ward St., Macomb, Ill. (63). **F G**

*Finley, Hon. John Huston, Commissioner of Education, Albany, N. Y. (65). 1915. **L**

Finley, Norval Howard, 7229 Hermitage St., Pittsburgh, Pa. (52). **C D I**

Finley, W. L., 651 East Madison St., Portland, Oregon. (65).

Finner, Ewald R., Dodge, Wis. (65). **G**

Finney, Florella Kelso, 324 Emerson St., Palo Alto, Cal. (66).

*Finney, John M. T., M. D., 1300 Eutaw Place, Baltimore, Md. (60). 1914. **K**

Fippin, Elmer Otterbein, Professor of Soil Technology, Cornell University, Ithaca, N. Y. (62). **G**

*Fireman, Peter, Ph. D., Cosmos Club, Washington, D. C. (45). 1911. **D**

*Firmstone, Frank, Easton, Pa. (33). 1887. **D**

Firth, William P., 3 May Place, Rosedale, Toronto, Canada. (58). **C**

*Fischelis, Philipp, M. D., Associate Professor of Histology and Embryology, Medico-Chirurgical College, Philadelphia, Pa. (60). 1911. **K**

Fischer, Charles E. M., M. D., 1922 West Chicago Ave., Chicago, Ill. (53). **C F K**

*Fischer, Louis Albert, Bureau of Standards, Washington, D. C. (47). 1906. **A B C E**

*Fischer, Martin H., M. D., Professor of Physiology, University of Cincinnati, Cincinnati, Ohio. (58). 1909. **K**

*Fischer, Richard, Ph. D., Professor of Analytical Chemistry, University of Wisconsin, Madison, Wis. (58). 1909. **C**

Fischer, Rudolph, P. O. Box 368, San Dimas, Cal. (66).

Fischer, Walter, General Roca, Rio Negro, F. C. S., Argentina, S. A. (60). **G**

Fish, Charles Henry, M. E., P. O. Box 1593, Boston, Mass. (51). **D**

Fish, Frederick P., 84 State St., Boston, Mass. (60).

Fish, Joseph Burton, Department of Biology, Boys High School, Brooklyn, N. Y. (65). **F**

*Fish, Pierre Augustine, D. V. M., Sc. D., Professor of Veterinary Comparative Physiology, Cornell University, Ithaca, N. Y. (49). 1901. **K**

Fish, William B., 10601 Ashbury Ave., Cleveland, Ohio. (63).

*Fishberg, Maurice, M. D., 1337 Madison Ave., New York, N. Y. (57). 1911. **K**

Fisher, Carl D., M. D., 618 Mack Block, Denver, Colo. (55). **F K**

*Fisher, Cassius Asa, Consulting Geologist, Room 705, First National Bank Building, Denver, Colo. (55). 1909. **E**

Fisher, Chester G., 717 Forbes St., Pittsburgh, Pa. (60). **C**

*Fisher, Elizabeth Florette, Professor of Geology, Wellesley College, Wellesley, Mass. (57). 1909. **E**

Fisher, Elizabeth Wilson, 2222 Spruce St., Philadelphia, Pa. (66).

*Fisher, George Egbert, Ph. D., Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. (51). 1904. **A**

Fisher, George J., M. D., 124 East 28th St., New York, N. Y. (57). **I K**

Fisher, Henry Donald, M. E., care Fuel Testing Co., 220 Devonshire St., Boston, Mass. (60). **D**

*Fisher, Irving, Ph. D., R. P. D., Professor of Economics, Yale University, New Haven, Conn. (50). 1901. **A I**

Fisher, James, Professor of Mathematics and Physics, Michigan College of Mines, Houghton, Mich. (58). **A B**

Fisher, Robert Jones, 614 F St. N. W., Washington, D. C. (50). **D**

Fisher, Robert Welles, M. D., corner 3d South and 5th East Sts., Salt Lake City, Utah. (51). **K**

*Fisher, Walter Kenrick, Ph. D., Assistant Professor of Zoology, Leland Stanford Junior University, Stanford University, Cal. (65). 1915. **F**

Fisher, Wilbur H., C. E., 158 Market St., Hannibal, Mo. (60). **D**

*Fisher, Willard James, Ph. D., Professor of Physics, New Hampshire College, Durham, N. H. (53). 1910. **B**

Fisk, Eugene Lyman, M. D., 25 West 45th St., New York, N. Y. (64). **I K**

*Fisk, Prof. Harlan Wilbur, Department of Terrestrial Magnetism, Carnegie Institution of Washington, Washington, D. C. (60). 1910. **B**

Fisk, Herbert F., D. D., LL. D., 28 East Jackson Boulevard, Chicago, Ill. (50). **E H L**

Fiske, Andrew, 216 Commonwealth Ave., Boston, Mass. (60).

Fiske, Augustus Henry, 6 Cooke St., Providence, R. I. (58). **C**

*Fiske, Thomas Scott, Ph. D., Head, Department of Mathematics, Columbia University, New York, N. Y. (50). 1901. **A**

*Fiske, W. F., Gipsy Moth Parasite Laboratory, Melrose Highlands, Mass. (60). 1913. **F**

Fiske, Wilbur A., 1210 North Euclid Ave., Ontario, Cal. (51). **C E**

Fitch, Henry A., M. D., 4 Rutgers Park, Utica, N. Y. (60). **K**

Fitch, Mary Alida, Ph. D., 337 East Market St., Warrensburg, Mo. (62). **G**

Fitterer, John C., Professor of Civil and Irrigation Engineering, University of Wyoming, Laramie, Wyo. (64). **D**

*Fitz, George Wells, M. D., Peconic, N. Y. (47). 1898. **K**

Fitz, Leslie A., Professor of Milling Industry, Kansas State Agricultural College, Manhattan, Kans. (66). **M**

*Fitz Gerald, Francis A. J., The Fitz Gerald Laboratories, Inc., Niagara Falls, N. Y. (50). 1906. **C**

Fitzgerald, John Gerald, University of Toronto, Toronto, Canada. (63). **K**

Fitzgerald, William P., Chief Chemist, J. T. Baker Chemical Co., Phillipsburg, N. J. (60). **C**

Fitzpatrick, John F., 90 Western Ave., St. Paul, Minn. (62). **K**

*Fitzpatrick, Thomas J., Professor of Physics and Chemistry, University of Nebraska, Lincoln, Nebr. (52). 1905. **A G L**

*Fitz-Randolph, Raymond Bernard, Director, State Laboratory of Hygiene, Trenton, N. J. (54). 1911. **C K**

Flagg, Arthur L., 287 Highland Ave., Providence, R. I. (63). **E**

Flagg, Elisha, M. D., 199 Commonwealth Ave., Boston, Mass. (60). **K**

Flanigan, John A., 71 Marshall St., Paterson, N. J. (61). **C**

Flather, Miss Alice Virginia, 20 Arlington St., Nashua, N. H. (58). **C**

*Flather, John J., Professor of Mechanical Engineering, University of Minnesota, Minneapolis, Minn. (44). 1896. **D**

Fleener, F. Leslie, 402 4th Ave., Dayton, Ky. (65). **E**

Fleischhacker, Herbert, 1 Sansome St., San Francisco, Cal. (65).

Fleischner, Emanuel Charles, M. D., 350 Post St., San Francisco, Cal. (64). **K**

Fleisher, Moyer S., M. D., Assistant Professor of Bacteriology, St. Louis University School of Medicine, St. Louis, Mo. (62). **K**

*Flemer, John Adolph, Constructing Topographical and Landscape Engineer, "Ingleside," Norma, Va. (62). 1911. **D**

Fleming, A. S., M. D., Wheaton, Minn. (60). **K**

Fleming, Francis P., 345 East Monroe St., Jacksonville, Fla. (63).

*Fleming, John Adam, 36th St. and Broad Branch Road, Washington, D. C. (48). 1909. **A B D**

*Fletcher, Miss Alice Cunningham, Peabody Museum, Cambridge, Mass. (29). 1883. **H**

Fletcher, Austin Bradstreet, C. E., Forum Building, Sacramento, Cal. (65). **D**

*Fletcher, Horace, care Frederick A. Stokes Co., 449 4th Ave., New York, N. Y. (54). 1908. **H I K L**

*Fletcher, John M., Professor of Psychology and Education, Newcomb College, Tulane University, New Orleans, La. (65). 1915. **H L**

*Flexner, Abraham, General Education Board, 61 Broadway, New York, N. Y. (60). 1910. **L**

*Flexner, Simon, M. D., Sc. D., LL. D., The Rockefeller Institute for Medical Research, New York, N. Y. (52). 1905. **K**

Fling, Professor Harry R., Oshkosh Normal School, Oshkosh, Wis. (61).

*Flint, Professor Albert Stowell, Washburn Observatory, Madison, Wis. (30). 1887. **A**

*Flint, James Milton, M. D., U. S. N., Stoneleigh Court, Washington, D. C. (28). 1882. **F H**

*Flint, Joseph Marshall, M. D., Professor of Surgery, Yale University, New Haven, Conn. (58). 1914. **K**

Flint, Wesley Pillsbury, 1231 West Edwards St., Springfield, Ill. (64). **G**

Flocken, Charles Frederick, 2624 Emerson Ave., South, Minneapolis, Minn. (64). **F**

Floody, Rev. Robert J., 43 Endicott St., Worcester, Mass. (61). **L**

*Floyd, Bayard Franklin, Agricultural Experiment Station, Gainesville, Fla. (63). 1915. **G**

Floyd, C. Harold, 122 Salisbury Ave., Garden City, L. I., N. Y. (60).

Floyd, O. N., care Morgan Engineering Co., Dayton, Ohio. (65). **D**

*Focke, Theodore M., Ph. D., Professor of Mathematics, Case School of Applied Science, Cleveland, Ohio. (44). 1903. **A B**

Foersterling, Dr. Hans, 380 High St., Perth Amboy, N. J. (63).

*Foley, Arthur Lee, Ph. D., Professor of Physics, Indiana University, Bloomington, Ind. (46). 1900. **B**

*Folkmar, Daniel, D. S. S., 1818 N St., N. W., Washington, D. C. (46). 1911. **H I**

*Folks, Homer, 428 Hawthorne Ave., Yonkers, N. Y. (58). 1909. **I L**

Follis, Richard H., M. D., 3 East Read St., Baltimore, Md. (60). **K**

Folsom, Mrs. Charles F., 114 Marlborough St., Boston, Mass. (60).

Folsom, Justus Watson, Sc. D., Assistant Professor of Entomology, University of Illinois, Urbana, Ill. (53). 1906. **F**

Foord, James A., Professor of Farm Management, Division of Agriculture, Mass. Agricultural College, Amherst, Mass. (66). **M**

Foos, Charles S., Ph. D., Superintendent, Public Schools, Reading, Pa. (66). **L**

*Foot, Katharine, care Brown, Shipley and Co., 123 Pall Mall, London, England. (58). 1910. **F**

*Foote, Arthur De Wint, C. E., Grass Valley, Cal. (60). 1915. **D**

*Foote, James Stephen, M. D., 202 South 31st Ave., Omaha, Nebr. (50). 1911. **K**

*Foote, Warren Mathews, 107 North 19th St., Philadelphia, Pa. (50). 1906. **C E I L**

Foran, George Jesse, M. E., 471 Central Park, West, New York, N. Y. (60). **D**

FORBES, ALEXANDER, Milton, Mass. (60).

Forbes, Ernest Browning, Ph. D., Ohio Agricultural Experiment Station, Wooster, Ohio. (66). **M**

*Forbes, George Shannon, Ph. D., Boylston Hall, Cambridge, Mass. (58). 1910. **C**

*Forbes, Robert Humphrey, Professor of Chemistry, University of Arizona, Tucson, Ariz. (50). 1906. **C**

*Forbes, Stephen Alfred, Ph. D., LL. D., Professor of Entomology, University of Illinois, Urbana, Ill. (55). 1907. **F**

*FORBES, WILLIAM T. M., Ph. D., 23 Trowbridge Road, Worcester, Mass. (61). 1914. **F**

Ford, Bruce, M. E., 25 Summit St., Chestnut Hill, Philadelphia, Pa. (60). **D**

Ford, Starr, M. D., 19 West 7th St., Cincinnati, Ohio. (60). **K**

*Forrest, Charles Needham, New York Testing Laboratory, Maurer, N. J. (58). 1911. **C**

Forrester, J. Bryce, 1634 9th East St., Salt Lake City, Utah. (66).

FORTMANN, HENRY FREDERICK, President, Alaska Packers Association, 1007 Gough St., San Francisco, Cal. (54). **D**

Foshay, P. Maxwell, M. D., 168 Park St., Montclair, N. J. (61). **K**

Foster, Harold D., U. S. Forest Service, Medford, Oreg. (66). **M**

Foster, Macomb G., P. O. Box 1120, New York, N. Y. (49).

Foster, Dr. Romulus A., 2207 Massachusetts Ave., Washington, D. C. (63). **K**

Foster, Shirley W., care General Chemical Co. of California, San Francisco, Cal. (58). **F**

*Foster, William, Ph. D., Professor of Chemistry, Princeton University, Princeton, N. J. (60). 1911. **C**

Foster, W. T., 1625½ North Capitol St., Washington, D. C. (62). **A**

*Foster, William Trufant, Ph. D., LL. D., President, Reed College, Portland, Ore. (60). 1910. **I L**

*Foulk, Charles William, Professor of Analytical Chemistry, Ohio State University, Columbus, Ohio. (51). 1906. **C**

*Fountain, Claude Russell, Ph. D., Professor of Physics, University of Georgia, Athens, Ga. (58). 1910. **A B**

Foust, Thomas Bledsoe, La Follette, Tenn. (58). **C D**

Fouts, Jesse J., M. D., Gonzales, Texas. (60). **K**

*Fowle, Frederick Eugene, Astrophysical Observatory, Smithsonian Institution, Washington, D. C. (58). 1909. **A B**

Fowler, John V., M. D., 312 Grand Ave., Chicago, Ill. (58). **K**

Fox, Charles P., 395 Doyle St., Akron, Ohio. (63).

*Fox, Henry, Ph. D., U. S. Entomological Laboratory, Stonehenge, Charlottesville, Va. (52). 1906. **F**

Fox, Hugh F., 50 Union Square, New York, N. Y. (63).

*Fox, Philip, Professor of Astronomy, Dearborn Observatory, Evanston, Ill. (53). 1909. **A B**

*Fox, William, Professor of Physics, and Head of Department, College of the City of New York, New York, N. Y. (50). 1906. **B D**

Fox, William A., Glencoe, Ill. (58). **D**

*Foxworthy, Fred William, Ph. D., College of Agriculture and Forestry, Los Banos, Luzon, P. I. (52). 1911. **G M**

*Fracker, George Cutler, Ph. D., Cedar Rapids, Iowa. (52). 1905. **H L**

Fraenkel, Joseph, M. D., 114 East 66th St., New York, N. Y. (50). **H K**

*Francis, Charles Kenworthy, Ph. D., Professor of Chemistry, Oklahoma Agricultural Experiment Station, Stillwater, Okla. (50). 1910. **C**

Francis, Mark, D. V. M., Texas Agricultural Experiment Station, College Station, Texas. (63). **F**

*Frandsen, Peter, Professor of Zoology and Biology, University of Nevada, Reno, Nev. (62). 1915. **F**

Frank, Henry, 378 Vanderbilt Ave., Brooklyn, N. Y. (57). **C**

Frank, Henry, P. O. Box 136, Montrose, N. Y. (65). **I L**

Frankenthal, Lester E., M. D., 4825 Woodlawn Ave., Chicago, Ill. (60). **K**

*Frankforter, George Bell, Ph. D., Dean, College of Chemistry, University of Minnesota, Minneapolis, Minn. (43). 1901. **C**

*Frankland, Frederick William, "Okataina," Foxton, Manawatu, New Zealand. (50). 1906. **A B E H I K**

Franklin, Arthur I., 120 Firglade Ave., Springfield, Mass. (58). **C**

*Franklin, Mrs. Christine Ladd, LL. D., 527 W. 110th St., New York, N. Y. (47). 1899. **H**

*Franklin, Edward Curtis, Ph. D., Professor of Organic Chemistry, Leland Stanford Junior University, Stanford University, Cal. (47). 1900. **B C**

*Franklin, Milton Washington, M. D., E. E., Sprague Electric Works, Bloomfield, N. J. (60). 1913. **D K**

*Franklin, William Suddards, Sc. D., Professor of Physics, Lehigh University, South Bethlehem, Pa. (36). 1892. **B**

*Franz, Shepherd Ivory, Ph. D., M. D., Professor of Physiology, George Washington University, Washington, D. C. (55). 1909. **H K**

*Fraps, George Stronach, Ph. D., Associate Chemist, Texas Agricultural Experiment Station, College Station, Tex. (54). 1906. **C**

Frasch, Hans A., Exchange Court, 52 Broadway, New York, N. Y. (56). **C**

*Fraser, C. McLean, Ph. D., Biological Station, Nanaimo, B. C., Can. (63). 1914. **F**

Fraser, D. Kennedy, Assistant Professor of Education, Cornell University, Ithaca, N. Y. (66). **L**

Fraser, George Corning, 20 Exchange Place, New York, N. Y. (57). **E**

*Fraser, Samuel, P. O. Box N, Geneseo, N. Y. (58). 1911. **G**

Frazer, Frank Dean, 1206 Haight Ave., Portland, Ore. (58). **A G**

*FRAZER, JOHN, Ph. D., Assistant Professor of Chemistry, and Dean, Towne Scientific School, Philadelphia, Pa. (58). 1909. **C**

*Frazier, Charles Harrison, M. D., Professor of Clinical Surgery, University of Pennsylvania, Philadelphia, Pa. (54). 1911. **K**

*Frear, William, Ph. D., 246 South Pugh St., State College, Pa. (33). 1886. **C**

Fred, Edwin Brown, Ph. D., College of Agriculture, Madison, Wis. (60). **F K**

Fredenburg, George B., P. O. Box 216, Point Richmond Station, Richmond, Cal. (65).

*Frederick, Charles Warnock, 24 Lake View Terrace, Rochester, N. Y. (50). 1906. **A B C**

Frederick, J. M. H., 1429 Wagar Ave., Lakewood, Ohio. (64). **L**

Free, Edward Elway, 1105 Madison Ave., Baltimore, Md. (58). **B C E**

Freeborn, Stanley B., University of California, Berkeley, Cal. (66). **G**

*Freedman, William Horatio, Professor of Electrical Engineering, University of Vermont, Burlington, Vt. (50). 1901. **B D**

*Freeman, Charles, Ph. D., Director, Clark Chemical Laboratory, Westminster College, New Wilmington, Pa. (50). 1915. **C**

*Freeman, Edward Monroe, Ph. D., Professor of Vegetable Pathology and Botany, University Farm, St. Paul, Minn. (58). 1909. **G**

*Freeman, Frank Nugent, Ph. D., School of Education, University of Chicago, Chicago, Ill. (58). 1911. **H L**

Freeman, Gay Nichols, E. M., Thermopolis, Wyoming. (60). **D**

Freeman, Miss Harriet E., 37 Union Park, Boston, Mass. (57). **E G**

*Freeman, John Ripley, C. E., Sc. D., 235 Arlington Ave., Providence, R. I. (60). 1911. **D**

Freeman, Merrill P., Tucson, Ariz. (66).

FRENCH, MISS CAROLINE L. W., 42 Commonwealth Ave., Boston, Mass. (60).

*French, George Hazen, 912 South Normal Ave., Carbondale, Ill. (54). 1906. **F G**

French, Harley Ellsworth, M. D., 316 Hamline Ave., University, N. D. (63). **K**

French, John Shaw, Ph. D., 151 Morris Ave., Providence, R. I. (58). **A B L**

*French, Owen Bert, U. S. Coast and Geodetic Survey, Washington, D. C. (52). 1915. **A D E**

French, Raymond Albert, 3618 5th St., Des Moines, Iowa. (65).

*French, Rev. Thomas, Jr., Ph. D., R. F. D. 4, Box 240, Sebastopol, Cal. (30). 1883. **B H**

*Frerichs, Frederick W., Ph. D., 4320 Washington Boulevard, St. Louis, Mo. (58). 1911. **C**

Frick, John H., Professor of Mathematics, Central Wesleyan College, Warrenton, Mo. (27). **A B E**

*Friedenwald, Harry, M. D., Associate Professor of Ophthalmology and Otology, College of Physicians and Surgeons, Baltimore, Md. (51). 1909. **K**

Friedenwald, Julius, M. D., Professor of Gastroenterology, College of Physicians and Surgeons, Baltimore, Md. (63). **K**

Frierson, L. S., Frierson, La. (54). **F**

*Fries, Harold H., Ph. D., 92 Reade St., New York, N. Y. (40). 1898. **C K**

*Fries, J. August, Assistant Director, Institute of Animal Nutrition, Pennsylvania State College, State College, Pa. (57). 1915. **C**

Fries, John W., President, Peoples National Bank, Winston-Salem, N. C. (56). **C**

Friesell, H. Edmund, D. D. S., School of Dentistry, University of Pittsburgh, Pittsburgh, Pa. (65). **K**

Frink, Robert L., M. E., Lancaster, Ohio. (63). **D**

Frisbie, Jesse F., M. D., P. O. Box 455, Newton, Mass. (29). **E H K**

*Frisby, Edgar, Professor of Mathematics, U. S. N., 1607 31st St. N. W., Washington, D. C. (28). 1880. **A**

*Frissell, Algernon Sydney, President, Fifth Avenue Bank of New York, 530 Fifth Ave., New York, N. Y. (52). 1915. **I**

*Frissell, Lewis Fox, M. D., 113 East 56th St., New York, N. Y. (57). 1908. **K**

Froeberg, Sven, Ph. D., Professor of Psychology, Upsala College, Kenilworth, N. Y. (66). **H**

*Fromme, Fred Denton, Ph. D., Purdue University, La Fayette, Ind. (63). 1913. **G**

*Frost, Edwin Brant, Sc. D., Director, Yerkes Observatory, Williams Bay, Wis. (38). 1890. **A B**

Frost, Howard Brett, Ph. D., Citrus Experiment Station, Riverside, Cal. (65). **G**

Frost, Miss Lilla Ninette, Centre Sandwich, N. H. (57). **G**

Frost, W. H., M. D., U. S. Public Health Service, Cincinnati, Ohio. (63).

*Frost, William Dodge, Ph. D., Associate Professor of Bacteriology, University of Wisconsin, Madison, Wis. (50). 1906. **K**

*Frothingham, Channing, Jr., M. D., 395 Marlborough St., Boston, Mass. (60). 1911. **K**

Frugone, Frank L., 178 Park Row, New York, N. Y. (57).

Fry, Charles, 21 Commonwealth Ave., Boston, Mass. (53). **I**

*Fry, Harry Shipley, Ph. D., University of Cincinnati, Cincinnati, Ohio. (60). 1911. **C**

Frye, Maud J., M. D., 211 Highland Ave., Buffalo, N. Y. (60). **K**

*Frye, Theodore Christian, Ph. D., Professor of Botany, University of Washington, Seattle, Wash. (53). 1909. **G**

Fryer, James Robert, Department of Agriculture, Ottawa, Canada. (65). **G**

Fryer, Roy M., Spadra, Cal. (61).

Fuchs, Ernesto, M. E., 87 C. Progreso, Guadalajara, Mexico. (58). **D**

Fuchs, Fernando, C., E. M., Casilla 981, Lima, Peru, S. A. (60). **D**

*Fulcher, Gordon Scott, Ph. D., Department of Physics, University of Wisconsin, Madison, Wis. (58). 1911. **B**

*Fuller, Caleb Allen, Ph. D., 71 Charles Field St., Providence, R. I. (54). 1906. **F**

Fuller, Charles Gordon, M. D., 500 Reliance Building, Chicago, Ill. (35). **F K**

FULLER, FRANK, 61 Fifth Ave., New York, N. Y. (57).

Fuller, Frederick D., Chief Deputy State Chemist, Agricultural Experiment Station, La Fayette, Ind. (60). **C**

Fuller, George Damon, Department of Botany, University of Chicago, Chicago, Ill. (62). **G**

*Fuller, George Warren, 170 Broadway, New York, N. Y. (50). 1903. **D**

*Fuller, Harry V., Ph. D., Professor of Chemistry, Pei-Yang University, Hsiku, Tientsin, China. (60). 1915. **C**

*FULLER, MYRON LESLIE, 185 Spring St., Brockton, Mass. (50). 1905. **E**

*Fullerton, George Stuart, Ph. D., LL. D., Leopoldstrasse 7, Munich, Bavaria. (64). 1914. **H**

Fullmer, Edward Lawrence, Professor of Biology, Baldwin University, Berea, Ohio. (50). **F**

*Fulmer, Elton, Professor of Chemistry, State College of Washington, Pullman, Washington. (58). 1911. **C E**

*Fulton, Harry Rascoe, Professor of Botany, North Carolina College of A. and M. Arts, West Raleigh, N. C. (58). 1911. **G**

*Fulton, Robert Burwell, LL. D., Miller School, Va. (21). 1887. **A B**

Furlow, Floyd Charles, 11th Ave. and 26th St., New York, N. Y. (50). **D**

Furman, Davis, M. D., 229 River St., Greenville, S. C. (60). **K**

*Furness, Caroline Ellen, Ph. D., Associate Professor of Astronomy, Vassar College, Poughkeepsie, N. Y. (47). 1899. **A**

Furniss, Henry Watson, M. D., Ph. D., American Consulate, Port-au-Prince, Haiti. (64).

Furry, W. D., President, Ashland College, Ashland, Ohio. (63). **L**

Furst, Clyde Bowman, Secretary, Carnegie Foundation for the Advancement of Teaching, 576 5th Ave., New York, N. Y. (52).

Futcher, Thomas Barnes, M. D., 23 West Franklin St., Baltimore, Md. (60). **K**

Gaba, Meyer Grupp, Dartmouth College, Hanover, N. H. (62). **A**

Gabe, William Edwin, 40 Francis St., Fenway Station, Boston, Mass. (65). **K**

Gabriel, George Andrew, 5 Shepard St., Worcester, Mass. (58). **A B C D E**

Gaehr, Paul Frederick, Ph. D., Professor of Physics, Wells College, Aurora, N. Y. (58). **A B**

Gaff, Thomas T., 1520 20th St. N. W., Washington, D. C. (52).

Gage, Homer, M. D., 8 Chestnut St., Worcester, Mass. (61). **K**

Gage, Otis Amsden, Ph. D., Assistant Professor of Physics, University of Wisconsin, Madison, Wis. (61). **B**

*Gage, Simon Henry, Emeritus Professor of Histology and Embryology, Cornell University, Ithaca, N. Y. (28). 1881. **F**

*Gage, Stephen De M., Rhode Island State Board of Health, Providence, R. I. (60). 1911. **K**

*Gage, Mrs. Susanna Phelps, 4 South Ave., Ithaca, N. Y. (48). 1900. **F**

Gage-Day, Mary, M. D., 207 Wall St., Kingston, N. Y. (51). **K**

*Gager, Charles Stuart, Ph. D., Director, Brooklyn Botanic Garden, Brooklyn, N. Y. (50). 1909. **G**

Gahagan, William L., M. D., 87 St. Nicholas Place, New York, N. Y. (51). **K**

Gahm, James L., M. D., Jackson, Ohio. (60). **K**

Gaige, Frederick M., University of Michigan, Ann Arbor, Mich. (65). **F**

Gail, Floyd Whitney, Assistant Professor of Botany, University of Idaho, Moscow, Idaho. (63). **G**

Gaines, Clement Carrington, LL. D., President, Eastman National Business College, Poughkeepsie, N. Y. (65). **I L**

GAINES, WALTER LEE, University of Chicago, Chicago, Ill. (65).

Gaines, William D., M. D., Lafayette, Ala. (60). **K**

*Galbraith, John, Professor of Engineering, University of Toronto, Toronto, Canada. (38). 1889. **D**

*Gale, Arthur Sullivan, Ph. D., Professor of Mathematics, University of Rochester, Rochester, N. Y. (54). 1906. **A**

*Gale, Henry Gordon, Ph. D., Associate Professor of Physics, University of Chicago, Chicago, Ill. (58). 1910. **B**

Gallagher, John P., S. J., Professor of Inorganic Chemistry, Holy Cross College, Worcester, Mass. (66). **C**

Galliver, George Alfred, M. D., 90 Magnolia Ave., Arlington, N. J. (64). **A K**

*Galloway, Beverly Thomas, LL. D., Director, New York State College of Agriculture, Ithaca, N. Y. (37). 1890. **G**

Galloway, David H., M. D., Roswell, New Mexico. (60). **K**

Galloway, John D., C. E., 1500 Euclid Ave., Berkeley, Cal. (60). **D**

*Galloway, Thomas Walton, Ph. D., Professor of Biology, James Millikin University, Decatur, Ill. (45). 1901. **F G H L**

Gamble, Charles D., M. D., Spencerville, Ohio. (60). **K**

*Gane, Henry Stewart, Ph. D., Santa Barbara, Cal. (58). 1910. **E**

Ganong, Walter Kierstead, 9 Coburg St., St. John, N. B., Canada. (57). **D**

*Ganong, William Francis, Ph. D., Professor of Botany, Smith College, Northampton, Mass. (49). 1900. **G**

*Ganz, Albert Frederick, M. E., Professor of Electrical Engineering, Stevens Institute of Technology, Hoboken, N. J. (52). 1906. **B D**

*Garber, John Frederick, Ph. D., Yeatman High School, St. Louis, Mo. (56). 1911. **G**

Garber, Miss Lida J., 2706 Claremont Ave., Berkeley, Cal. (65).

Garcin, Ramon D., M. D., 2618 East Broad St., Richmond, Va. (51). **C K**

Gard, Willis Lloyd, Professor of History and Principles of Education, State Normal College, Athens, Ohio. (64). **L**

Gardiner, Rev. Frederic, 421 West Price St., Germantown, Pa. (47). **F L**

Gardner, Rev. Corliss B., Spencerport, N. Y. (29). **A I**

*Gardner, James Henry, Ph. D., 212 Clinton Building, Tulsa, Okla. (62). 1913. **E**

Gardner, John R., 24 East 99th St., New York, N. Y. (58).

Gardner, Julia Anna, Ph. D., Maryland Geological Survey, Baltimore, Md. (60). **E**

Gardner, Max William, Princeton, Wis. (64). **G**

*Gardner, Nathaniel Lyon, Ph. D., Assistant Professor of Botany, University of California, Berkeley, Cal. (62). 1915. **G**

Gardner, Placida, M. D., 640 Cons. Realty Building, Los Angeles, Cal. (65). **K**

*Garman, Prof. Samuel, Museum of Comparative Zoology, Cambridge, Mass. (20). 1874. **E F**

Garner, Clem. L., U. S. Coast and Geodetic Survey, Manila, P. I. (62). **D**

*Garner, James Bert, Ph. D., Mellon Institute, University of Pittsburgh, Pittsburgh, Pa. (53). 1909. **C**

*Garrett, Albert Osbun, Secretary, Utah Academy of Sciences, 615 South 9th East St., Salt Lake City, Utah. (50). 1911. **G**

*Garrett, J. B., North Louisiana Experiment Station, Calhoun, La. (58). 1914. **F**

GARRETT, MRS. T. HARRISON, Evergreen-on-Avenue, Baltimore, Md. (60).

Garrison, Wilbert A., Assistant Professor of Mathematics, Union College, Schenectady, N. Y. (58). **A L**

Garver, Madison M., Associate Professor of Physics, Pennsylvania State College, State College, Pa. (64). **B**

Garver, Samuel, Redfield, S. D. (64). **G**

*Garvin, John Brewer, Principal, South Side High School, Denver, Colo. (50). 1911. **C**

Gary, Lester Bennett, 31 Berkeley Place, Buffalo, N. Y. (53). **F**

Gates, Arthur I., 2614 Dwight Way, Berkeley, Cal. (66).

*Gates, Burton Noble, Ph. D., Professor of Psychology, Massachusetts Agricultural College, Amherst, Mass. (58). 1914. **F G H K**

*Gates, Fanny Cook, Ph. D., Professor of Physics, Grinnell College, Grinnell, Iowa. (50). 1907. **A B L**

Gates, Frank Caleb, Ph. D., 4540 North Lincoln St., Chicago, Ill. (65). **G**

Gates, Frederick Lamont, M. D., Rockefeller Institute, for Medical Research, New York, N. Y. (65). **K**

*Gates, Reginald Ruggles, Ph. D., Royal College of Science, South Kensington, London, S. W., England. (58). 1909. **F G**

Gaub, John, 134 Easton Ave., New Brunswick, N. J. (58). **A C**

Gaumnitz, Amos J., Better Farming Association, Fessenden, N. D. (65). **G**

Gaumnitz, Daniel Asher, Assistant Professor of Animal Husbandry, Agricultural Experiment Station, St. Paul, Minn. (55). **F**

Gause, Fred Taylor, M. E., care Standard Oil Co., 26 Broadway, New York, N. Y. (40). **D**

Gavett, George Irving, Assistant Professor of Mathematics, University of Washington, Seattle, Wash. (58). **A**

Gavett, Weston, 560 North 12th St., East St. Louis, Ill. (66). **C F**

*Gay, Frederick Parker, M. D., Head, Department of Pathology, University of California, Berkeley, Cal. (60). 1911. **K**

Gaylord, Joseph S., Normal School, Winona, Minn. (62).

Geballe, Pauline I., 1949 Pine St., San Francisco, Cal. (57). **B C**

Gee, Wilson Parham, Ph. D., Professor of Biology, Emory College, Oxford, Ga. (63). **F G**

*Geer, William Chauncey, Ph. D., 630 Diagonal Road, Akron, Ohio. (58). 1911. **B C**

Geiser, Samuel Wood, Professor of Biology, Guilford College, Guilford College, N. C. (65). **F**

*Geisler, Joseph Frank, New York Mercantile Exchange, New York, N. Y. (50). 1911. **C**

*Geisse, William F. G., R. F. D. 2, Great Barrington, Mass. (57). 1913. **H I**

*Geissler, Ludwig Reinhold, Ph. D., University of Georgia, Athens, Ga. (56). 1911. **H L**

*Genthe, Karl Wilhelm, Ph. D., Blumenstrasse 2, Chemnitz, Germany. (50). 1901. **F L**

Gentsch, Charles, M. D., 2826 Franklin Ave., Cleveland, Ohio. (60). **K**

George, D. C., Washington Agricultural Experiment Station, Pullman, Wash. (65). **G**

*George, Russell D., Professor of Geology, University of Colorado, Boulder, Colo. (53). 1909. **E**

*Georgeson, Charles Christian, Professor of Agriculture, Alaska Agricultural Experiment Station, Sitka, Alaska. (60). 1911. **G**

Gephart, Frank, 714 West 181st St., New York, N. Y. (57). **C**

Gerber, Howard Levi, 507 Broadway, Troy, N. Y. (61). **C**

Gerhard, Charles Herbert, M. D., 508 No. 9th St., Reading, Pa. (64). **K**

Gerhard, William J., Field Museum of Natural History, Chicago, Ill. (60). **F**

Gericke, William Frederick, California Agricultural Experiment Station, Berkeley, Cal. (64). **G**

*Germann, George B., Ph. D., Principal, Public School No. 130, Brooklyn, N. Y. (49). 1901. **F H L**

Gernert, Walter Byron, Ph. D., Agricultural Experiment Station, Urbana, Ill. (63). **G**

*Gerould, John Hiram, Ph. D., Assistant Professor of Zoology, Dartmouth College, Hanover, N. H. (58). 1911. **F**

*Gerry, Miss Eloise, 616 Lake St., Madison, Wis. (63). 1915. **G**

Gescheidt, Miss Adelaide, 817 Carnegie Hall, New York, N. Y. (66). **A L**

*Getman, Frederick Hutton, Ph. D., 66 Glenbrook Road, Stamford, Conn. (45). 1909. **B**

Geyer, William E., 78 Second St., New York, N. Y. (60). **C**

Gibbs, David, Ph. D., Superintendent of Schools, Meriden, Conn. (62). **L**

Gibbs, George, C. E., Pennsylvania Station, New York, N. Y. (57). **B C D E**

*Gibbs, Harry Drake, Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (64). 1915. **C**

Gibbs, Winifred Stuart, 70 Irving Place, New York, N. Y. (62). **I**

Gibson, Arthur, M. E., P. O. Box 200, Nome, Alaska. (60). **D**

Gibson, Edmund H., P. O. Box 207, Charleston, Mo. (64). **F**

*Gibson, Robert Banks, Ph. D., Assistant Professor of Physiological Chemistry, University of Missouri, Columbia, Mo. (58). 1911. **K**

Gibson, T. H., 3320 Waialae Ave., Honolulu, Hawaii. (66).

*Giddings, Nahum James, Professor of Plant Pathology, West Virginia Agricultural Experiment Station, Morgantown, W. Va. (58). 1911. **C G**

*Gidley, James Williams, U. S. National Museum, Washington, D. C. (62). 1911. **E**

Gierisch, Otto Thomas, E. E., 85 Clinton St., Brooklyn, N. Y. (60). **D**

*Gies, William John, Ph. D., Professor of Biological Chemistry, College of Physicians and Surgeons, New York, N. Y. (49). 1901. **C K**

*Giffard, Walter M., P. O. Box 308, Honolulu, Hawaii. (58). 1915. **F**

Giffen, R. B., M. D., Hagelstein Building, Sacramento, Cal. (66). **K**

Gifford, Harold, M. D., 567 Brandeis Block, Omaha, Nebr. (51). **K**

*Gilbert, Alfred Holley, Professor of Botany, State University of Kentucky, Lexington, Ky. (63). 1915. **G**

*Gilbert, Arthur Witter, Ph. D., Assistant Professor of Plant Breeding, Cornell University, Ithaca, N. Y. (58). 1911. **G**

*Gilbert, Charles Henry, Ph. D., Professor of Zoology, Leland Stanford Junior University, Stanford University, Cal. (65). 1915. **F**

*Gilbert, Edward M., Department of Botany, University of Wisconsin, Madison, Wis. (62). 1913. **G**

*GILBERT, GROVE KARL, LL. D., U. S. Geological Survey, Washington, D. C. (18). 1874. **E**

Gilbert, J. J., U. S. Coast and Geodetic Survey, Washington, D. C. (62).

Gilbert, James H., 1103 Atlanta National Bank Building, Atlanta, Ga. (62).

Gilbert, James Zaccheus, 3300 Griffin Ave., Los Angeles, Cal. (61).

Gilbert, John Philo, Professor of Biology, Southern Illinois Normal School, Carbondale, Ill. (60). **F**

Gilbert, Newell Clark, M. D., 8 Illinois St., Chicago Heights, Ill. (64). **K**

*Gilbert, Norman Everett, Ph. D., Professor of Physics, Dartmouth College, Hanover, N. H. (51). 1906. **A B**

Gilbert, Walter M., Assistant Secretary, Carnegie Institution of Washington, Washington, D. C. (54). **L**

*Gilbert, William W., U. S. Department of Agriculture, Washington, D. C. (63). 1913. **G**

*Gilbertson, Albert N., Ph. D., University of Minnesota, Minneapolis, Minn. (61). 1913. **H**

Gilchrist, Maude, Associate Professor of Botany, Wellesley College, Wellesley, Mass. (65). **G**

*Gilchrist, Thomas Caspar, M. D., Clinical Professor of Dermatology, Johns Hopkins University, Baltimore, Md. (52). 1911. **K**

*Gildersleeve, Nathaniel, M. D., Professor of Microbiology and Bacterio-Pathology, Thomas W. Evans Museum and Dental Institute, Philadelphia, Pa. (52). 1906. **C F G K**

*Giles, Albert William, Professor of Geology and Chemistry, Kansas Wesleyan University, Salina, Kans. (60). 1915. **C E**

*Gill, Adam Capen, Ph. D., Assistant Professor of Mineralogy and Petrography, Cornell University, Ithaca, N. Y. (38). 1894. **B E**

*Gill, Augustus Herman, Ph. D., Professor of Technical Analysis, Massachusetts Institute of Technology, Boston, Mass. (44). 1896. **C**

Gill, Herbert A., 612 14th St. N. W., Washington, D. C. (66). **F**

*Gill, John Boyd, Monticello, Fla. (62). 1914. **F**

Gill, Miss Laura Drake, Trinity College, Durham, N. C. (58). **A**

Gill, Thomas Buell, Lowell Observarory, Flagstaff, Ariz. (66). **A**

Gillespie, Elizabeth, 604 Botetout Apt., Norfolk, Va. (66). **B C L**

Gillespie, Louis John, 1424 R St., N. W., Washington, D. C. (65). **F K**

*Gillespie, William, Ph.D., Professor of Mathematics, Princeton University, Princeton, N. J. (58). 1909. **A**

Gillet, Harry Orrin, 6121 Evans Ave., Chicago, Ill. (60). **A**

*Gillett, Arthur Lincoln, Professor of Apologetics, Hartford Theological Seminary, Hartford, Conn. (54). 1906.

Gillett, Harry, 813 Superior Ave., N. W., Cleveland, Ohio. (63).

Gillette, Arthur Alfred, M. D., 511 North Washington St., Rome, N. Y. (60). **K**

*Gillette, Clarence Preston, Professor of Zoology, Colorado Agricultural College, Fort Collins, Colo. (50). 1901. **F**

Gilley, Frank Milton, 21 John St., Chelsea, Mass. (58). **B C D K L**

Gilliland, Samuel Howard, M. D., Marietta, Pa. (63). **K**

Gilman, Albert Franklin, Professor of Chemistry, Ripon College, Ripon, Wis. (62). **C**

Gilman, M. French, Sacaton, Arizona. (65).

*Gilmore, John Washington, Head, Department of Agronomy, University of California, Berkeley, Cal. (58). 1911. **G**

Gilmore, L. H., 649 Galena Avenue, Pasadena, Cal. (65).

Gilmore, Melvin R., Ph. D., Curator, Historical Museum, University of Nebraska, Lincoln, Nebr. (66). **E G H**

Ginn, Thomas D., 12 Westminster Ave., Roxbury Station, Boston, Mass. (65). **D**

*Girault, A. Arsene, Bureau of Entomology, U. S. Department of Agriculture, Washington, D. C. (57). 1913. **F**

*Girty, George Herbert, Ph. D., U. S. Geological Survey, Washington, D. C. (48). 1903. **E**

Girvin, John Harper, M. D., 2120 Walnut St., Philadelphia, Pa. (60). **K**

Given, Arthur, 224 Broad St., Newark, N. J. (57). **C D**

*Given, Guy C., Assistant Professor of Agronomy, Pennsylvania State College, State College, Pa. (60). 1915. **C M**

Givler, J. P., Professor of Biology, Southwestern College, Winfield, Kans. (66). **F**

*Gladding, Thomas Stantial, 181 Front St., New York, N. Y. (60). 1911. **C**

Glaive, August F., State Food and Drug Laboratory, Berkeley, Cal. (65).

*Glaser, Charles, Analytical and Consulting Chemist, 22 South Gay St., Baltimore, Md. (49). 1911. **C**

*Glaser, Otto Charles, Ph. D., Assistant Professor of Zoology, University of Michigan, Ann Arbor, Mich. (58). 1910. **F G**

Glaser, R. W., Bussey Institution, Forest Hills, Boston, Mass. (65).

Glasgow, Grace, Department of Bacteriology, Kansas State Agricultural College, Manhattan, Kansas. (66). **K**

*Glasgow, Hugh, Ph. D., New York Agricultural Experiment Station, Geneva, N. Y. (61). 1915. **F M**

Glasgow, Robert Douglas, Ph. D., Natural History Building, Urbana, Ill. (61). **F**

Glatfelder, Edith E., 3615 Lafayette Ave., St. Louis, Mo. (63). **E G**

*Gleason, Henry Allan, Ph. D., Assistant Professor of Botany, University of Michigan, Ann Arbor, Mich. (50). 1909. **G**

Glenk, Robert, Louisiana State Museum, Jackson Square, New Orleans, La. (58). **C**

*Glenn, Leonidas Chalmers, Ph. D., Professor of Geology, Vanderbilt University, Nashville, Tenn. (50). 1903. **E**

*Glenn, Oliver Edmunds, Ph. D., Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. (54). 1907. **A**

Glenn, Prof. Pressley Adams, 1018 West Oregon St., Urbana, Ill. (62). **F**

Glenn, Thomas H., Ph. D., 1314 East 62d St., Chicago, Ill. (63).
GLENNY, WILLIAM H., 810 West Ferry St., Buffalo, N. Y. (25).
Glessner, John Jacob, 1800 Prairie Ave., Chicago, Ill. (58).
Glover, Henry, 6445 Emlen St., Germantown, Philadelphia, Pa. (60). **C**
*Glover, James Waterman, Ph. D., Professor of Mathematics and Insurance, University of Michigan, Ann Arbor, Mich. (63). 1914. **A**
*Goddard, Henry Herbert, Ph. D., Vineland, N. J. (57). 1910. **L**
Goddard, Loring H., U. S. Department of Agriculture, Washington, D. C. (64). **G**
Goddard, Malcolm, Butler Building, San Francisco, Cal. (66).
*Goddard, Pliny Earle, Ph. D., Associate Curator of Anthropology, American Museum of Natural History, New York, N. Y. (62). 1912. **F H**
Goddard, Robert Hutchings, Ph. D., Department of Physics, Clark College, Worcester, Mass. (63). **B**
Godfrey, Almon Tanner, M. D., Hope College, Holland, Mich. (60). **C K**
Godfrey, Charles C., M. D., 753 Lafayette St., Bridgeport, Conn. (51). **G K**
Godfrey, Hollis, Sc. D., M. E., President, Drexel Institute, Philadelphia, Pa. (66). **D**
Goding, Frederic Webster, M. D., Ph. D., American Consulate General, Guayaquil, Ecuador. (60). **F K**
Godshall, W. Vernon, 221 Comstock Place, Syracuse, N. Y. (63).
Goebel, Julius, Ph. D., Professor of German, University of Illinois, Urbana, Ill. (60). **L**
Goethe, C. M., Nicolans Building, Sacramento, Cal. (66).
*Goetsch, Emil, M. D., Ph. D., Peter Bent Brigham Hospital, Boston, Mass. (63). 1913. **K**
Goetze, Frederick Arthur, Dean, Schools of Mines, Engineering and Chemistry, Columbia University, New York, N. Y. (57). **C D**
Goldan, S. Ormond, M. D., 59 West 74th St., New York, N. Y. (60). **K**
Goldbaum, Jacob Samuel, 212 Winona Road, Norwood, Pa. (60). **C**
*Golden, Asher, M. E., 1074 Longfellow Ave., New York, N. Y. (54). 1906. **B D**
Golden, Isaac J. K., M. D., 2238 West North Ave., Chicago, Ill. (58). **K**
*Goldfarb, A. J., Ph. D., College of the City of New York, New York, N. Y. (57). 1908. **F K**
Goldman, Agnes, 132 East 70th St., New York, N. Y. (66). **H K**
*Goldman, Marcus Isaac, Ph. D., U. S. Geological Survey, Washington, D. C. (58). 1915. **E**
GOLDSBOROUGH, JOHN BYRON, Croton on Hudson, N. Y. (57).
Goldsborough, Francis C., M. D., 459 Franklin St., Buffalo, N. Y. (60). **K**
*GOLDSCHMIDT, SAMUEL ANTHONY, Ph. D., 11 Broadway, New York, N. Y. (24). 1880. **C**
Goldsmith, Byron B., 19 East 74th St., New York, N. Y. (58). **B C D**
*GOLDSMITH, EDWARD, Ph. D., 658 North 10th St., Philadelphia, Pa. (29). 1892. **B C**

*Goldthwait, James Walter, Ph. D., Assistant Professor of Geology, Dartmouth College, Hanover, N. H. (58). 1908. **E**

Goldthwait, Joel E., M. D., 372 Marlborough St., Boston, Mass. (60). **K**

*Goldthwaite, Nellie Esther, Ph. D., Assistant Professor of Household Science, University of Illinois, Urbana, Ill. (47). ♦ 1910. **C K**

Goltman, Max, M. D., 410 Union Ave., Memphis, Tenn. (60). **K**

*Gomberg, Moses, Sc. D., 725 Oxford Road, Ann Arbor, Mich. (51). 1904. **C**

Gomez, Dr. Liborio, Mati, Moro, P. I. (65).

*Gooch, Frank Austin, Ph. D., Professor of Chemistry, Yale University, New Haven, Conn. (25). 1880. **C**

Good, Edwin Stanton, Professor of Animal Husbandry, Kentucky Agricultural Experiment Station, Lexington, Ky. (63). **M**

Good, Grover Charles, Head Master, Howe School, Howe, Ind. (63). **L**

*Goodale, George Lincoln, M. D., LL. D., Emeritus Professor of Botany, Harvard University, Cambridge, Mass. (18). 1875. **G**

*Goodale, Hubert Dana, Ph. D., Mass. Agricultural College, Amherst, Mass. (57). 1915. **F**

*Goodale, Joseph Lincoln, M. D., 258 Beacon St., Boston, Mass. (50). 1906. **F K**

Goodale, Stephen Lincoln, Professor of Metallurgy, University of Pittsburgh, Pittsburgh, Pa. (61). **D**

*Goode, John Paul, Ph. D., Associate Professor of Geography, University of Chicago, Chicago, Ill. (52). 1905. **E H I L**

Goodell, F. E., 608 Youngman Building, Des Moines, Iowa. (60).

Goodell, Nettie D., Sedgwick, Kansas. (65). **I**

Goodhue, E. S., The Doctorage, Holualoa, No. Koua, Hawaii. (66).

Goodman, Abraham Lincoln, M. D., 136 West 87th St., New York, N. Y. (56). **H I K**

Goodman, Henry M., M. D., 721 3d Ave., Louisville, Ky. (60). **K**

Goodnow, Henry R., 98 Riverside Drive, New York, N. Y. (32). **B C**

Goodrich, Julia Irene, Secretary, Station for Experimental Evolution, Cold Spring Harbor, L. I., N. Y. (60). **F**

Goodridge, Frederic Grosvenor, M. D., 122 East 78th St., New York, N. Y. (64). **K**

*Goodspeed, Arthur Willis, Ph. D., Professor of Physics, University of Pennsylvania, Philadelphia, Pa. (47). 1898. **B**

Goodspeed, G. E., Jr., Corvallis, Oreg. (66).

*Goodspeed, Thomas Harper, Department of Botany, University of California, Berkeley, Cal. (63). 1915. **G**

Goodwin, Harold, 3927 Locust St., Philadelphia, Pa. (65).

*Goodwin, Harry Manley, Ph. D., Professor of Physics, Massachusetts Institute of Technology, Boston, Mass. (47). 1901. **B**

Goodwin, W. Nelson, Jr., E. E., 30 Scheerer Ave., Newark, N. J. (58). **B D**

Gookin, Sister Helen Rita, Professor of Geography, College of St. Elizabeth, Convent Station, N. J. (65). **E**

*Gordin, Harry Mann, Ph. D., Northwestern University School of Pharmacy, Chicago, Ill. (56). 1911. **C**

*Gordon, C. McCheyne, Ph. D., Professor of Physics, Lafayette College, Easton, Pa. (48). 1906. **A B C**

*Gordon, Charles Henry, Ph. D., University of Tennessee, Knoxville, Tenn. (52). 1905. **E**

Gordon, Clarence Everett, Ph. D., Associate Professor of Zoology and Geology, Massachusetts Agricultural College, Amherst, Mass. (57). **E F**

Gordon, Frederick W., M. E., Clardon, Orchard Lane, Ft. Washington, Philadelphia, Pa. (58). **D**

*Gordon, George Byron, Ph. D., Director of Museum, University of Pennsylvania, Philadelphia, Pa. (63). 1911. **H**

Gordon, Gustavus Ede, Scientific Director, Walker-Gordon Laboratory Co., Chevy Chase, Md. (50). **F**

Gordon, John, 235 Elm St., Buffalo, N. Y. (62). **K**

Gordon, Marjorie, 159 Dowling Ave., Toronto, Can. (63). **G**

Gordon, Neil E., The Park School, Baltimore, Md. (65). **A C L**

*Gorham, Frederic Poole, Associate Professor of Biology, Brown University, Providence, R. I. (53). 1906. **F K**

Gorter, Nathan R., 1 West Biddle St., Baltimore, Md. (60). **K**

Gortner, Ross Aiken, Ph. D., University Farm, St. Paul, Minn. (63). **G**

*Gorton, Frederick Russell, Ph. D., Michigan State Normal College, Ypsilanti, Mich. (58). 1911. **B**

Goss, Willard L., U. S. Department of Agriculture, Washington, D. C. (57). **G**

*Goss, William Freeman Myrick, Dean, College of Engineering, University of Illinois, Urbana, Ill. (39). 1896. **D**

*Gossard, Harry Arthur, Professor of Entomology, Ohio Agricultural Experiment Station, Wooster, Ohio. (50). 1906. **F**

Gottlieb, Maurice Barnard, 40 College House, Cambridge, Mass. (63). **C**

*Gottschalk, Victor Hugo, Professor of Chemistry, Missouri School of Mines, Rolla, Mo. (54). 1909. **C**

Goucher, John Franklin, M. D., LL. D., President, Goucher College, Baltimore, Md. (50).

*Gould, Charles Newton, Ph. D., 408 Terminal Building, Oklahoma, Okla. (53). 1907. **E**

*Gould, George Milbry, M. D., 401 Oriental Ave., Atlantic City, N. J. (51). 1902. **H K**

*Gould, Harris Perley, 114 W St., N. W., Washington, D. C. (52). 1911. **G**

*Gould, Ralph A., 319 Monadnock Building, San Francisco, Cal. (65). 1915.

Goulder, Harvey D., 7023 Euclid Ave., Cleveland, Ohio. (63).

Gouldy, Miss Jennie Augusta, 169 Montgomery St., Newburgh, N. Y. (50). **I**

*Gowdy, Robert Clyde, Ph. D., University of Cincinnati, Cincinnati, Ohio. (63). 1915. **B**

Gowen, John Whittemore, Maine Agricultural Experiment Station, Orono, Me. (65). **G**

Grab, Eugene G., 1436 Meridian Place, Washington, D. C. (65).

*Grabau, Amadeus William, Sc. D., Professor of Palæontology, Columbia University, New York, N. Y. (54). 1905. **E**

Graber, Myron Earle, Professor of Physics, Heidelberg University, Tiffin, Ohio. (58). **A B D**

Graber, Philip E., 9501 Pratt Ave. S. E., Cleveland, Ohio. (64).

*Graenicher, Sigmund, M. D., Ph. D., Public Museum, Milwaukee, Wis. (63). 1915. **F**

Graf, August V., Chemist, Water Division, Department of Public Utilities, St. Louis, Mo. (66). **C**

*Graff, Paul Weidemyer, Ph. D., 1775 North Ave., Bridgeport, Conn. (60). 1915. **G**

Graham, Douglas, M. D., 74 Boylston St., Boston, Mass. (51). **K**

Graham, J. O., Professor of Chemistry, Cumberland University, Lebanon, Tenn. (65). **C**

*Graham, James Chandler, Phillips Academy, Andover, Mass. (50). 1911. **C E L**

*Graham, John Young, Ph. D., Professor of Biology, University of Alabama, University, Ala. (54). 1909. **F G**

*Graham, William Joseph, care Equitable Life Assurance Society of the United States, 165 Broadway, New York, N. Y. (54). 1907. **A I**

Graham, William Pratt, Ph. D., Dean, College of Applied Science, Syracuse University, Syracuse, N. Y. (60). **D**

Graham-Maingot, Ferdinand Joseph, 23 St. Vincent St., Port of Spain, Trinidad, B. W. I. (57).

Grant, Percy Stickney, D. D., 7 West 10th St., New York, N. Y. (62). **I**

*Grant, Ulysses Sherman, Ph. D., Professor of Geology, Northwestern University, Evanston, Ill. (50). 1902. **E**

Grant, William V., M. D., 253 Essex St., Lawrence, Mass. (60). **K**

Grantham, Arthur E., Professor of Agronomy, Delaware College, Newark, Del. (66). **M**

Grantham, George M., Michigan Agricultural College, East Lansing, Mich. (66). **M**

*Granville, William Anthony, Ph. D., President, Pennsylvania College, Gettysburg, Pa. (50). 1906. **A**

*Grasty, John Sharshall, Sc. D., Ph. D., Mining and Economic Geologist, University, Va. (62). 1911. **E**

*Gratacap, Louis Pope, 77th St. and 8th Ave., New York, N. Y. (27). 1884. **C E F**

*Graton, Louis Caryl, E. M., Geological Museum, Cambridge, Mass. (62). 1911. **E**

*Grave, Benjamin Harrison, Ph. D., Knox College, Galesburg, Ill. (62). 1915. **F**

*Grave, Caswell, Ph. D., Associate Professor of Zoology, Johns Hopkins University, Baltimore, Md. (54). 1909. **F**

*Graves, Prof. Henry Solon, Chief, U. S. Forest Service, Washington, D. C. (62). 1914. **G M**

Graves, William B., "Rosewell," Pikesville, Md. (60).

Graves, William W., M. D., 5136 Morgan St., St. Louis, Mo. (58). **H K L**

Gray, C. E., 2233 H St., Eureka, Cal. (65).

*Gray, C. Truman, University of Texas, Austin, Texas. (65). 1915. **L**

Gray, Frank Pierce, M. D., Hammonton, Cal. (60). **K**

Gray, George P., Insecticide Laboratory, University of California, Berkeley, Cal. (66). **F**

Gray, Harold Farnsworth, 208 Ramona Building, Palo Alto, Cal. (65).

Gray, Mrs. Horace, Sunset Cottage, Glendale, Ohio. (60).

Gray, Miss Isa E., 5 Chestnut St., Boston, Mass. (60).

Gray, John H., Jr., 2040 Lake St., San Francisco, Cal. (60). **C**

Gray, Miss Nellie Anne, Dean of Women, State Normal School, Bellingham, Wash. (66).

Gray, Roscoe Spalding, 3535 Telegraph Ave., Oakland, Cal. (58). **I**

*Gray, Thomas Tarvin, Chemist, Tidewater Oil Co., Bayonne, N. J. (57). 1910. **C**

*Graybill, Harry W., care American Smelting and Refining Co., Salt Lake City, Utah. (58). 1914. **F**

Graydon, Thomas J., 603 Masonic Temple, Chicago, Ill. (58).

Greaves, Joseph Eames, Ph. D., Professor of Chemistry, Agricultural College of Utah, Logan, Utah. (63). **C**

Greeder, Herman, Plattsmouth, Nebraska. (60). **C**

Greeff, J. G. Wm., M. D., 24 West 91st St., New York, N. Y. (57). **K L**

*Green, Arthur Lawrence, M. D., Ph. D., Purdue University, La Fayette, Ind. (33). 1888. **C K**

Green, Edgar Moore, M. D., 222 Spring Garden St., Easton, Pa. (36). **C G K**

*Green, Prof. Franklin Theodore, 500 Divisadero St., San Francisco, Cal. (65). 1915. **C**

Green, James Arleigh, C. E., 111 West Monroe St., Chicago, Ill. (58). **D**

Green, Jerome J., Professor of Physics and Electrical Engineering, University of Notre Dame, Notre Dame, Ind. (54). **B D**

Green, Rufus Lot, Professor of Mathematics, Leland Stanford Junior University, Stanford University, Cal. (66). **A**

Green, Sarah Letty, Head, Department of Physical Sciences, Wilson College, Chambersburg, Pa. (58). **A B C**

Green, Susan Allen, Maryville College, Maryville, Tenn. (63).

Green, William F., Crystal Falls, Mich. (61). **C E**

*Greene, Arthur Maurice, Jr., Professor of Mechanical Engineering, Rensselaer Polytechnic Institute, Troy, N. Y. (54). 1905. **D**

*Greene, Charles Lyman, M. D., 914 Lowry Building, St. Paul, Minn. (51). 1909. **K**

*Greene, Charles Wilson, Ph. D., Professor of Physiology and Pharmacology, University of Missouri, Columbia, Mo. (50). 1901. **F K**

*Greene, Frank Cook, Missouri Geological Survey, Rolla, Mo. (61). 1915. **E**

Greene, George Kennard, 127 West Market St., New Albany, Ind. (38). **E**

Greene, Levi R., M. E., 132 Federal St., Boston, Mass. (60). **D**

Greene, Maria Louise, Ph. D., 33 High St., Mystic, Conn. (64).

Greene, Wesley, Des Moines, Iowa. (64).

GREENE, WILLIAM HOUSTON, Arch and 16th Sts., Philadelphia, Pa. (54).

Greenewald, Herbert, Normal School, West Chester, Pa. (61).

Greenfield, B. Spencer, 4420 Fleming St., Roxborough, Philadelphia, Pa. (61). **D H**

Greenhood, L. H., 519 California St., San Francisco, Cal. (65).

*Greenman, Jesse More, Ph. D., Missouri Botanical Garden, St. Louis, Mo. (47). 1899. **G**

*Greenman, Milton J., M. D., Sc. D., Director, Wistar Institute of Anatomy, Philadelphia, Pa. (60). 1911. **K**

Greenough, Charles, 3 East 9th St., New York, N. Y. (57).

Greenough, John, 59 Wall St., New York, N. Y. (49).

Greenwald, Isidor, Ph. D., 317 East 57th St., New York, N. Y. (63). **C**

Greenway, James C., M. D., Greenwich, Conn. (53). **C K**

*Greenwood, George William, Dunbar, Pa. (54). 1906. **A**

Greer, James Richard, University of Chicago, Chicago, Ill. (57). **K**

Gregg, Frank C., M. D., Manor, Texas. (60). **K**

Gregg, Wellington, Jr., 1342 Jones St., San Francisco, Cal. (65).

Gregg, William Henry, M. D., care Miss Rachel Stickney, St. Cloud, Fla. (49). **C F K**

*Gregory, Emily Ray, Ph. D., Marine Biological Laboratory, Woods Hole, Mass. (50). 1901. **F G**

*GREGORY, HERBERT ERNEST, Ph. D., Professor of Geology, Yale University, New Haven, Conn. (50). 1902. **E**

*Gregory, Louise H., Ph. D., Department of Zoology, Barnard College, Columbia University, New York, N. Y. (62). 1915. **F**

Gregory, William King, Ph. D., Sherman Square Hotel, New York, N. Y. (57). **F**

Gregory, William M., Queenstown Road, Warrensville, Ohio. (60). **A G**

Greit, Adolph J., E. M., 27 William St., New York, N. Y. (58). **D**

Gress, Prof. Ernest Milton, Edgewood Park, Pittsburgh, Pa. (64). **G**

Gribbel, John, 1513 Race St., Philadelphia, Pa. (54).

Grier, Prof. Norman McDowell, Central High School, St. Louis, Mo. (65). **F**

Griffin, Dan Baker, R. F. D. 1, Winooski, Vt. (60). **F**

*Griffin, Frank Loxley, Ph. D., Professor of Mathematics, Reed College, Portland, Ore. (60). 1910. **A**

*Griffin, John Joseph, Ph. D., Professor of Chemistry, Catholic University of America, Washington, D. C. (54). 1910. **C**

*Griffith, Herbert E., 1527 North Cherry St., Galesburg, Ill. (60). 1911. **C**

Griffith, Percy Tate, Stamford, Conn. (65).

*Griffiths, David, Ph. D., U. S. Department of Agriculture, Washington, D. C. (49). 1903. **G**

*Griggs, Leland, Ph. D., Dartmouth College, Hanover, N. H. (63). 1913. **F**

*Griggs, Robert Fiske, Ph. D., Assistant Professor of Botany, Ohio State University, Columbus, Ohio. (52). 1909. **G**

Grimm, Carl Robert, Bridge and Structural Engineer, 167 Columbia Heights, Brooklyn, N. Y. (51). **D**

Grimm, Samuel O., Department of Physics, Lebanon Valley College, Annville, Pa. (66). **B**

*Grimsley, George Perry, Ph. D., Martinsburg, W. Va. (51). 1905. **E**

*Grindley, Harry Sands, Sc. D., Professor of Animal Nutrition, University of Illinois, Urbana, Ill. (46). 1898. **C**

Grindrod, George, Chemist, Pacific Coast Condensed Milk Co., Kent, Wash. (65). **C**

*Grinnell, George Bird, Ph. D., 238 East 15th St., New York, N. Y. (25). 1885. **H**

*Grinnell, Joseph, Ph. D., Curator, Museum of Vertebrate Zoology, University of California, Berkeley, Cal. (61). 1914. **F G H**

Griswold, Clifford S., Head, Department of Physics, Groton School, Groton, Mass. (50). **B**

Griswold, Prof. Donald Thomas, Belleville, Texas. (62).

Griswold, Harry Todd, C. E., Old Lyme, Conn. (60). **D**

*Griswold, Prof. Leon Stacy, Plymouth, Mass. (38). 1893. **E**

*Groat, Prof. Benjamin Feland, 3415 William Pitt Boulevard, Pittsburgh, Pa. (51). 1904. **A B C D**

Groat, William Avery, M. D., 105 Rugby Road, Syracuse, N. Y. (60). **K**

*Grondahl, Lars Olai, Ph. D., Carnegie Institute of Technology, Pittsburgh, Pa. (63). 1915. **B**

Gröndal, Bror L., College of Forestry, Seattle, Wash. (65). **M**

Groom, Wallace P., Academy of Music Building, Brooklyn, N. Y. (57). **B C D I**

Gross, Abraham, 420 West 116th St., New York, N. Y. (58). **C**

*Gross, Alfred Otto, Ph. D., Assistant Professor of Zoology, Bowdoin College, Brunswick, Me. (64). 1915. **F**

Gross, Cheney C., M. D., 416 Walnut St., Yankton, S. D. (58). **K**

Gross, Julius H., M. D., 514 Oakwood Ave., Webster Groves, Mo. (60). **K**

Grossart, Lewis John Henry, C. E., 423 Commonwealth Building, Allentown, Pa. (60). **D**

*Grossenbacher, John Gasser, Plymouth, Fla. (63). 1915. **G**

Grossman, Edward L., M. D., 603 J St., Sacramento, Cal. (53). **K**

*Grosvenor, Gilbert Hovey, Editor, *National Geographic Magazine*, Hubbard Memorial Hall, Washington, D. C. (48). 1906. **E H**

Groszmann, Dr. Maximilian P. E., Educational Director, National Association for the Study and Education of Exceptional Children, "Watchung Crest," Johnston Drive, Plainfield, N. J. (52). **H L**

*Grout, Abel Joel, Ph. D., 226 3d St., New Dorp, S. I., N. Y. (47). 1899. **G L**

*Grout, Frank F., University of Minnesota, Minneapolis, Minn. (60). 1911. **C**

*Grove, Charles Clayton, Ph. D., Professor of Mathematics, Columbia University, New York, N. Y. (58). 1909. **A**

Grove, John Michael, 916 Swede St., Norristown, Pa. (63). **C F**

*Grover, Frederick Orville, Professor of Botany, Oberlin College, Oberlin, Ohio. (50). 1906. **G**

Groves, Ernest R., Professor of Psychology and Sociology, New Hampshire College of A. and M. Arts, Durham, N. H. (63). **H**

Grower, George G., E. E., 48 Cottage Ave., Ansonia, Conn. (43). **B D**

Grubb, Percy L., 417 Briggs St., Harrisburg, Pa. (63).

Grubb, W. A., care American Steel and Wire Co., San Francisco, Cal. (65).

Gruenberg, Benjamin C., Chairman, Biological Department, Commercial High School, Brooklyn, N. Y. (52). **F G L**

*Gruener, Hippolyte, Ph. D., Professor of Chemistry, Adelbert College, Cleveland, Ohio. (44). 1898. **C**

Grunauer, Bernhard P., 11425 Glenwood Ave., Cleveland, Ohio. (63).

Grundel, J. G., Oakdale, Cal. (65).

*Grunsky, Carl Ewald, C. E., 57 Post St., San Francisco, Cal. (65). 1915. **D**

Gucker, Frank T., 3420 Hamilton St., Philadelphia, Pa. (54). **D**

*Gudeman, Edward, Ph. D., 903 Postal Telegraph Building, Chicago, Ill. (57). 1909. **C D K**

*Gudger, Eugene Willis, Ph. D., Professor of Biology, State Normal and Industrial College, Greensboro, N. C. (60). 1913. **F**

Güell, Aurelio R., San Jose, Costa Rica, C. A. (63). **C F G**

*Guenther, August Ernest, Ph. D., University of Nebraska College of Medicine, Omaha, Nebr. (57). 1909. **K**

GUGGENHEIM, WILLIAM, 500 Fifth Ave., New York, N. Y. (57). **D**

Guiher, Horace B., M. D., Smithfield, Pa. (60). **K**

Guild, Frank N., Professor of Chemistry and Mineralogy, University of Arizona, Tucson, Ariz. (66). **C E**

Guinzburg, Richard A., 31 West 87th St., New York, N. Y. (57). **I**

Guiteras, Ramon, M. D., 80 Madison Ave., New York, N. Y. (62). **K**

*Gulick, Addison, Ph. D., University of Missouri, Columbia, Mo. (58). 1913. **F K**

*Gulick, Luther Halsey, M. D., Director, Department of Child Hygiene, Russell Sage Foundation, New York, N. Y. (52). 1909. **K L**

*Gulliver, Frederic Putnam, Ph. D., 4843 Walton Ave., Philadelphia, Pa. (40). 1900. **E L**

*Gummere, Henry Volkmar, Professor of Mathematics, Drexel Institute, Philadelphia, Pa. (51). 1906. **A B**

Gundrum, F. F., 1021 10th St., Sacramento, Cal. (66).

Gundry, Lewis H., M. D., Relay Station, Md. (60). **K**

*Gunn, Selskar Michael, Associate Professor of Sanitary Biology and Public Health, Massachusetts Institute of Technology, Boston, Mass. (58). 1914. **I K**

*Gunther, Charles Otto, M. E., Professor of Mathematics and Mechanics, Stevens Institute of Technology, Hoboken, N. J. (57). 1909. **A B D L**

Gunthorp, Prof. Horace, 1902 Rhode Island St., Lawrence, Kans. (61). **F**

Gurd, Fraser Baillie, M. D., 406 Mackay St., Montreal, Canada. (63). **K**

*Gurley, William F. E., 6151 University Ave., Chicago, Ill. (62). 1913. **E**

Gurney, C. H., M. D., 4603 Avenue N., Chattanooga, Tenn. (60). **K**

Gurney, Lawrence Emery, Ph. D., Assistant Professor of Physics, University of the Philippines, Manila, P. I. (58). **B**

*Güssow, Hans Theodor, F. R. M. S., Dominion Botanist, Central Experiment Farm, Ottawa, Canada. (60). 1911. **G**

*Guthe, Karl Eugen, Ph. D., Professor of Physics, University of Michigan, Ann Arbor, Mich. (45). 1897. **B**

*Guthrie, Charles Claude, M. D., Ph. D., Professor of Physiology, University of Pittsburgh, Pittsburgh, Pa. (58). 1909. **K**

*Guthrie, David Vance, Ph. D., Head, Department of Physics, Louisiana State University, Baton Rouge, La. (60). 1911. **B**

Guthrie, Rev. Donald, 808 Park Ave., Baltimore, Md. (60). **K**

Guthrie, John D., U. S. Forest Service, Flagstaff, Ariz. (66). **M**

Guthrie, Joseph Edward, Assistant Professor of Zoology, Iowa State College, Ames, Iowa. (52). **F**

Guthrie, William Alvis, M. D., Southern Kentucky Sanatorium, Franklin, Ky. (51). **K**

*Guttmann, Leo Frank, Ph. D., Assistant Professor of Chemistry, Queen's University, Kingston, Ontario, Canada. (58). 1910. **C**

*Guyer, Michael Frederic, Ph. D., Professor of Zoology, University of Wisconsin, Madison, Wis. (52). 1905. **F K**

Hachtel, F.W., M. D., 122 West Lafayette Ave., Baltimore, Md. (60). **K**

Hackett, William H., E. M., 607 North Pearl St., Joplin, Mo. (58). **D**

Hackmeier, William J., 3840 21st St., San Francisco, Cal. (65).

Hadley, Artemus N., P. O. Box 313, Indianapolis, Ind. (51). **D**

*Hadley, Philip B., Ph. D., Chief, Division of Biology, Rhode Island Agricultural Experiment Station, Kingston, R. I. (58). 1910. **F**

*Hadley, Stephen Marshall, Ph. D., Professor of Mathematics and Astronomy, Penn College, Oskaloosa, Iowa. (54). 1906. **A**

Haecker, Theophilus L., Professor of Dairy Husbandry, University of Minnesota, Minneapolis, Minn. (58). **M**

*Haeseler, P. C., Havemeyer Laboratory, Columbia University, New York, N. Y. (63). 1915. **C**

Hagadorn, Francis T., 1909 Wallace Ave., Bronx, New York, N. Y. (63).

*Hagar, Stansbury, 48 Wall St., New York, N. Y. (43). 1899. **H**

*Hagenow, Charles F., 120 East 44th St., Chicago, Ill. (58). 1911. **A B**

Hager, Daniel S., M. D., 3653 No. Crawford Ave., Irving Station, Chicago, Ill. (58). **H K**

*Haggerty, Melvin E., Ph. D., Associate Professor of Psychology, Indiana University, Bloomington, Ind. (62). 1914. **H**

*Hague, Arnold, Sc. D., LL. D., U. S. Geological Survey, Washington, D. C. (26). 1879. **E**

HAGUE, WILLIAM, E. M., 22 William St., New York, N. Y. (57). **D E**

Hagy, Claude B., Department of Physics and Chemistry, Central High School, Philadelphia, Pa. (57). **B C**

*Hahn, Clarence Wilson, 567 West 186th St., New York, N. Y. (57). 1913. **F K L**

Hailman, James D., C. E., 310 South Lang Ave., Pittsburgh, Pa. (51). **B D H**

Hailmann, W. N., 413 Arroyo Drive, Pasadena, Cal. (61). **H L**

Haimbach, Frank, 150 Sumac St., Wissahickon, Philadelphia, Pa. (58). **F**

Haines, George Clark, Durand, Ill. (58). **F G**

*Haines, Thomas Harvey, Ph. D., 1194 Oak St., Columbus, Ohio. (52). 1905. **H K L**

*Haines, Walter Stanley, M. D., Rush Medical College, Chicago, Ill. (58). 1911. **C**

*Halberstadt, Baird, Pottsville, Pa. (60). 1911. **E**

*Hale, Albert Cable, Ph. D., 487 Halsey St., Brooklyn, N. Y. (29). 1886. **B C**

Hale, Clarence Frederick, 217 Mitchell St., Ithaca, N. Y. (60). **C**

*Hale, George Ellery, Sc. D., LL. D., Director, Mt. Wilson Solar Observatory, Pasadena, Cal. (37). 1891. **A B**

Hale, Henry Warren Kilburn, 608 Perry Building, Philadelphia, Pa. (54). **A B D**

*Hale, William Henry, Ph. D., Superintendent, Public Baths, 40 First Place, Brooklyn, N. Y. (19). 1874. **A B C E F H I**

*Hale, William J., Ph. D., Department of Chemistry, University of Michigan, Ann Arbor, Mich. (54). 1910. **C**

Haley, Frank L., Professor of Physiological Chemistry, University of Alabama, Mobile, Ala. (65). **K**

*Hall, Arthur Graham, Ph. D., Professor of Mathematics, University of Michigan, Ann Arbor, Mich. (60). 1910. **A**

*Hall, Asaph, Ph. D., U. S. Naval Observatory, Washington, D. C. (38). 1890. **A**

*Hall, Charles Martin, LL. D., Vice-President, Aluminum Co. of America, Niagara Falls, N. Y. (50). 1904. **C**

*Hall, Edwin Herbert, Ph. D., LL. D., Rumford Professor of Physics, Harvard University, Cambridge, Mass. (29). 1881. **B**

*Hall, Elmer Edgar, Ph. D., Associate Professor of Physics, University of California, Berkeley, Cal. (58). 1910. **B**

Hall, Frederick James, E. E., 4 Benedict Ave., Tarrytown, N. Y. (58). **D E**

Hall, Gaylord C., 622 West 137th St., New York, N. Y. (57). **D**

Hall, H. Porter, M. D., Leominster, Mass. (60). **K**

*Hall, Harvey Monroe, Ph. D., Assistant Professor of Economic Botany, College of Agriculture, Berkeley, Cal. (64). 1915. **G**

Hall, Ivan C., Assistant Professor of Bacteriology, University of California, Berkeley, Cal. (65). **F K**

*Hall, John Galentine, Professor of Plant Pathology, State College of Washington, Pullman, Wash. (62). 1913. **G**

*Hall, John W., University of Cincinnati, Cincinnati, Ohio. (61). 1915. **L**

Hall, Joseph Underwood, M. D., 216 Autumn St., San José, Cal. (51). **K**

Hall, Louis Wells, C. E., 1032 Crescent Ave., Birmingham, Ala. (60). **D**

*Hall, Lyman Beecher, Ph. D., Haverford College, Haverford, Pa. (31). 1884. **C**

Hall, Robert A., University of Minnesota, Minneapolis, Minn. (63). **C K**

*Hall, Robert William, Ph. D., Professor of Biology, Lehigh University, South Bethlehem, Pa. (50). 1905. **F**

*Hall, Roy D., Ph. D., 35 Franklin Ave., West Orange, N. J. (58). 1911. **C**

Hall, Sherrell W., 2728 Channing Way, Berkeley, Cal. (65).

Hall, Sidney Storrs, M. D., 424 Woodside Ave., Ripon, Wis. (60). **K**

Hall, T. Proctor, Ph. D., M. D., 1301 Davie St., Vancouver, Canada. (66). **B**

*Hall, Thomas Cuming, D. D., Professor of Christian Ethics, Union Theological Seminary, New York, N. Y. (54). 1906. **I**

*Hall, William Bonnell, M. D., Fremont St., Selma, Ala. (51). 1909. **K**

*Hall, William Shafer, Professor of Mining and Graphics, Lafayette College, Easton, Pa. (50). 1906. **A D**

*Hall, William Thomas, Department of Chemistry, Massachusetts Institute of Technology, Boston, Mass. (57). 1910. **C**

Hall, William T., M. D., 730 5th Ave., New Kensington, Pa. (60). **K**

*Hall, Winfield Scott, M. D., Ph. D., Professor of Physiology, Northwestern University Medical School, Chicago, Ill. (52). 1907. **H K L**

*Hallock, Albert P., Ph. D., 1253 St. Nicholas Ave., New York, N. Y. (31). 1896. **C**

Hallock, Frank Kirkwood, M. D., Cromwell Hall, Cromwell, Conn. (50). **H K**

Halsey, Robert Hurtin, M. D., 158 West 58th St., New York, N. Y. (56). **K**

*Halstead, Ernest W., Ocean Springs, Miss. (54). 1911. **E F G**

Halsted, Arthur, E. E., 60 Wall St., New York, N. Y. (60). **D**

*Halsted, Byron David, Sc. D., Professor of Botany and Horticulture, Rutgers College, New Brunswick, N. J. (29). 1883. **G**

*Halsted, George Bruce, Ph. D., Professor of Mathematics, State Teacher's College, Greeley, Colo. (43). 1896. **A**

*Halsted, William Stewart, M. D., Sc. D., LL. D., Professor of Surgery, Johns Hopkins University, Baltimore, Md. (50). 1903. **I K L**

*Hamaker, John Irvin, Ph. D., Professor of Biology, Randolph-Macon Woman's College, College Park, Va. (50). 1901. **F**

*Hamann, Carl August, M. D., Professor of Anatomy, Western Reserve University Medical College, Cleveland, Ohio. (58). 1911. **K**

Hambleton, James Chase, Galloway, Ohio. (58). **F**

Hamburger, Louis P., M. D., 1207 Eutaw Place, Baltimore, Md. (60). **K**

*HAMERSCHLAG, ARTHUR ARTON, Sc. D., LL. D., Director, Carnegie Institute of Technology, Pittsburgh, Pa. (57). 1912. **D**

*Hamilton, Francis Marion, Ph. D., New York Training School for Teachers, New York, N. Y. (58). 1911. **H L**

Hamilton, George A., E. E., 532 Morris Ave., Elizabeth, N. J. (60). **D**

Hamilton, Gilbert V., M. D., Santa Barbara, Cal. (66). **H K**

Hamilton, Walter M., U. S. Naval Observatory, Washington, D. C. (63). **A**

Hamilton, Walter R., E. M., 433 California St., San Francisco, Cal. (60). **D**

Hamlin, George Herbert, C. E., Orono, Me. (60). **D**

Hamlin, Wilber Grafton, M. D., 163 State St., Chicago, Ill. (58). **K**

*Hamman, Louis, M. D., 714 Park Ave., Baltimore, Md. (60). 1914. **K**

*Hammer, William Joseph, E. E., 153 West 46th St., New York, N. Y. (52). 1906. **B D**

Hammond, George T., C. E., 156 Berkeley Place, Brooklyn, N. Y. (60). **D**

Hammond, Howard Spurr, Department of Botany, Oregon State Agricultural College, Corvallis, Oregon. (58). **G**

*Hammond, John Hays, LL. D., 71 Broadway, New York, N. Y. (50). 1901. **D E I L**

HAMMOND, MRS. JOHN HAYS, 320 Madison Ave., Lakewood, N. J. (50). **H**

Hamner, Nicholas C., 1916 Commerce St., Dallas, Tex. (60). **C**

*HANAMAN, CHARLES EDWARD, Troy, N. Y. (19). 1883. **F**

Hanawalt, Francis W., 826 North Steele St., Tacoma, Wash. (66).

Hance, Anthony M., 2217 DeLancey Place, Philadelphia, Pa. (51). **C D G**

Hance, Robert Theodore, University of Pennsylvania, Philadelphia, Pa. (64). **F**

Hancock, H. Irving, Ferguson-Hancock Laboratories, Blue Point, L. I., N. Y. (56). **C K**

*Hancock, Harris, Sc. D., Ph. D., Professor of Mathematics, University of Cincinnati, Cincinnati, Ohio. (54). 1906. **A**

Hancock, James Cole, M. D., 2 Rector St., New York, N. Y. (51). **K**

Hancock, William James, care Rev. Elliston Perot, Montrose, Pa. (60). **L**

Hancock, William Jerome, Hollis Court, Queens, N. Y. (58). **C**

Hanger, G. Wallace W., Ph. D., 925 Southern Building, Washington, D. C. (54). **H I L**

Hankinson, Thomas Leroy, Assistant in Biology, State Normal School, Charleston, Ill. (53). **F L**

Hanna, G. Dallas, U. S. Bureau of Fisheries, Washington, D. C. (62). **F**

Hanna, L. C., Perry-Payne Building, Cleveland, Ohio. (63).

*Hanna, Ulysses Sherman, Ph. D., Professor of Mathematics, Indiana University, Bloomington, Ind. (58). 1909. **A**

Hannay, William M., 207 I St., N. W., Washington, D. C. (62).

Hannibal, Harold, P. O. Box 21, Stanford University, Cal. (65).

Hanscom, W. W., 848 Clayton St., San Francisco, Cal. (65).

Hansen, Rev. James, St. John's University, Collegeville, Minn. (58). **F G**

*Hansen, Niels Ebbesen, Professor of Horticulture, South Dakota State College of Agriculture and Mechanic Arts, Brookings, S. D. (58). 1911. **G**

Hanson, Rev. F. V., 556 East 2nd St., Jamestown, N. Y. (61). **G**

Hanson. Hans Olaf, Bayshore Terrace, East Elmhurst, L. I., N. Y. (56).

*Hanson, Herman H., Associate Professor of Chemistry, Maine Agricultural Experiment Station, Orono, Me. (58). 1911. **C**

*Hanus, Paul Henry, LL. D., Professor of Education, Harvard University, Cambridge, Mass. (60). 1910. **L**

Hapeman, Harry, M. D., Minden, Nebraska. (51). **G K**

*Hard, Herbert A., North Dakota Agricultural College, Agricultural College, N. D. (64). 1915. **E**

Hardenbergh, Henry, Horse Head Inn, Palmerton, Pa. (58). **C**

*Harder, Edmund Cecil, U. S. Geological Survey, Washington, D. C. (60). 1911. **E**

Harder, Oscar E., University of Illinois, Urbana, Ill. (63).

*Hardesty, Irving, Ph. D., Professor of Anatomy, Tulane University, New Orleans, La. (63). 1915. **K**

*Harding, Everhart Percy, Ph. D., Assistant Professor of Chemistry, University of Minnesota, Minneapolis, Minn. (50). 1901. **C**

*Harding, Harry Alexis, Ph. D., College of Agriculture, University of Illinois, Urbana, Ill. (48). 1906. **G K**

*Harding, Newton H., 110 North Pine Ave., Chicago, Ill. (63). 1913. **H**

Hardy, Edward R., 419 West 118th St., New York, N. Y. (60).

Hare, William, 59 John St., New York, N. Y. (65).

*Hargitt, Charles Wesley, Ph. D., Professor of Zoology, Syracuse University, Syracuse, N. Y. (38). 1891. **F K L**

*Hargitt, George Thomas, Ph. D., Syracuse University, Syracuse, N. Y. (58). 1911. **F**

Hargrove, Julian Otho, 1603 O St. N. W., Washington, D. C. (58). **C D E**

Haring, Clarence Melvin, D. V. M., 2801 Russell St., Berkeley, Cal. (65). **K**

*Harkins, William Draper, Ph. D., Associate Professor of Chemistry, University of Chicago, Chicago, Ill. (60). 1911. **C**

Harley, Harrison Le Roy, 521 North College Ave., State College, Pa. (65). **H L**

Harlow, William Page, M. D., Boulder, Colo. (60). **K**

*Harman, Mary Theresa, Ph. D., Kansas State Agricultural College, Manhattan, Kansas. (60). 1915. **F**

Harmon, Charles Sumner, 1st National Bank Building, Chicago, Ill. (60).

Harmon, Herbert W., 418 Poplar St., Grove City, Pa. (52). **B**

Harmon, Judson B., E. E., 729 Diamond Ave., Woodhaven, Long Island, N. Y. (60). **D**

Harned, Robey Wentworth, Professor of Zoology and Entomology, Mississippi A. and M. College, Agricultural College, Miss. (58). **F**

Harney, George W., Marysville, Cal. (65).

Harnly, Henry Jacob, Ph. D., Professor of Biology, McPherson College, McPherson, Kans. (50). **F G**

*Harper, Eugene Howard, Ph. D., R. D. 2, Bedford City, Va. (60). 1911. **K**

*Harper, Henry Winston, M. D., LL. D., Professor of Chemistry, University of Texas, Austin, Tex. (45). 1899. **C K**

Harper, Joseph Nelson, Professor of Agriculture, Clemson Agricultural College, Clemson College, S. C. (58). **G**

Harper, Merritt Wesley, Professor of Animal Husbandry, Cornell University, Ithaca, N. Y. (63). **F**

*Harper, Robert Almer, Ph. D., Professor of Botany, Columbia University, New York, N. Y. (54). 1906. **G**

Harper, Robert Brinton, 4534 Drexel Boulevard, Chicago, Ill. (58). **C**

Harper, Robert Henry, M. D., Afton, Okla. (50). **F H K**

*Harper, Roland McMillan, Ph. D., 555 First Ave., College Point, N. Y. (55). 1909. **E G**

Harpham, Edwin L., 931 Maple Ave., Evanston, Ill. (58).

*Harrington, Elmer A., Clark University, Worcester, Mass. (61). 1912. **B**

Harrington, George T., 1120 Virginia Ave. S. W., Washington. D. C. (62). **C G**

*Harris, Abram Winegardner, LL. D., President, Northwestern University, Evanston, Ill. (40). 1895. **C**

Harris, Downey L., M. D., City Bacteriologist, St. Louis, Mo. (64). **K**

Harris, Franklin Stewart, Ph. D., Professor of Agronomy, Agricultural Experiment Station, Logan, Utah. (62). **G**

*Harris, Gilbert Dennison, Professor of Geology, Cornell University, Ithaca, N. Y. (58). 1911. **E**

*Harris, Gorham W., Assistant Professor of Chemistry, Simmons College, Boston, Mass. (64). 1915. **C**

Harris, Mrs. Henrietta C., 1104 Worthington St., Springfield, Mass. (65).

*Harris, J. Campbell, 119 South 16th St., Philadelphia, Pa. (50). 1907. **F**

*Harris, James Arthur, Ph. D., Station for Experimental Evolution, Cold Spring Harbor, L. I., N. Y. (52). 1907. **F G**

Harris, M. L., Roosevelt, Utah. (66).

Harris, N. W., care Harris Trust and Savings Bank, 117 Monroe St., Chicago, Ill. (58).

*Harris, Norman MacLeod, Assistant Professor of Bacteriology, University of Chicago, Chicago, Ill. (54). 1906. **K**

Harris, Robert Wayne, M. D., 621 Vincennes St., New Albany, Ind. (51). **K**

*Harris, Rollin Arthur, Ph. D., U. S. Coast and Geodetic Survey, Washington, D. C. (47). 1899. **A B**

*Harris, Uriah Rose, Rear-Admiral, U. S. N., The Brighton, 2123 California St., Washington, D. C. (34). 1886. **A**

Harris, William Denny, 3611 Sansom St., Philadelphia, Pa. (54). **B C D**

Harrison, Bruce Magill, Department of Zoology, Iowa State College, Ames, Iowa. (62). **F**

Harrison, Frank S., Halltown, W. Va. (64). **D**

*Harrison, John Burchmore, Director, Government Laboratory, Georgetown, British Guiana. (58). 1910. **C E**

Harrison, John Green, D. D., Professor of Philosophy and Education, Mercer University, Macon, Ga. (62). **H L**

*Harrison, Ross Granville, M. D., Ph. D., Professor of Comparative Anatomy, Yale University, New Haven, Conn. (54). 1906. **F K**

Harrold, Charles C., M. D., 416½ Second St., Macon, Ga. (60). **K**

Harsh, S. A., P. O. Box 910, Denver, Colo. (60). **C**

*Harshberger, John William, Ph. D., Professor of Botany, University of Pennsylvania, Philadelphia, Pa. (54). 1906. **G**

*Hart, Charles Arthur, University of Illinois, Urbana, Ill. (51). 1906. **E F**

*Hart, Edward, Ph. D., Professor of Chemistry, Lafayette College, Easton, Pa. (33). 1885. **C**

*Hart, Edwin Bret, Ph. D., Professor of Agricultural Chemistry, University of Wisconsin, Madison, Wis. (58). 1910. **C K**

Hart, Francis Russell, 17 Court St., Boston, Mass. (64). **D**

Hart, George H., 149 East 39th St., New York, N. Y. (58).

*Hart, James Norris, Sc. D., Professor of Mathematics and Astronomy, University of Maine, Orono, Me. (51). 1906. **A L**

Hart, Joseph K., University of Washington, Seattle, Wash. (66).

Hart, Rev. Samuel, D. D., LL. D., Dean, Berkeley Divinity School, Middletown, Conn. (22). **A**

Hart, Prof. W. R., Amherst, Mass. (61). **L**

Harte, Richard Hickman, M. D., Adjunct Professor of Surgery, University of Pennsylvania, Philadelphia, Pa. (65). **K**

Harter, George A., Ph. D., Professor of Mathematics and Physics, Delaware College, Newark, Del. (66). **A B**

*Harter, Leonard Lee, U. S. Department of Agriculture, Washington, D. C. (55). 1911. **G**

*Hartley, Carl, U. S. Department of Agriculture, Washington, D. C. (57). 1913. **G**

*Hartley, Charles P., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (51). 1911. **G**

Hartley, Frank, Principal, Allegany County Academy, Cumberland, Md. (51). **E G**

Hartline, Daniel S., State Normal School, Bloomsburg, Pa. (54). **F G**

Hartman, Carl, 3008 Washington Square, Austin, Texas. (64).
Hartman, Frank Alexander, 9 Youle St., Melrose, Mass. (62). **F**
*Hartman, Leon Wilson, Ph. D., Professor of Physics, College of Agriculture, Reno, Nevada. (58). 1910. **B**
Hartmann, Francis M., Professor of Physics, Cooper Union, New York, N. Y. (56). **B D**
Hartmann-Kempf, Robert E., Ph. D., care Hartmann & Braun, Frankfurt-am-Main, Germany. (54). **B D**
*Hartnagle, Chris. A., State Museum, Albany, N. Y. (61). 1911. **E**
*Hartness, James, President, Jones & Lamson Machine Co., Springfield, Vt. (51). 1911. **A D**
Hartshorne, Edward Y., Haverford, Pa. (65).
*Hartwell, Burt Laws, Ph. D., Professor of Agricultural Chemistry, Agricultural Experiment Station, Kingston, R. I. (55). 1911. **C G**
*Hartwell, George Wilber, Ph. D., Professor of Mathematics, Hamline University, St. Paul, Minn. (58). 1911. **A**
*Hartwell, John Augustus, M. D., 27 East 63d St., New York, N. Y. (57). 1908. **K**
Hartz, J. D. Aug., 1147 3d Ave., College Point, N. Y. (43). **C E G**
Hartzell, Frederick Z., Chautauqua Experiment Vineyard, Fredonia, N. Y. (58). **F G**
*Hartzell, Joseph Culver, Ph. D., Blue Ash, Ohio. (49). 1911. **C E K**
Hartzell, Mabel A., Sinton, Tex. (58). **C**
*Harvey, Basil C. H., M. D., Associate Professor of Anatomy, University of Chicago, Chicago, Ill. (58). 1911. **F K**
Harvey, E. Newton, Guyot Hall, Princeton University, Princeton, N. J. (58). **K**
*Harvey, Edward M., Watsonville, Cal. (63). 1915. **G**
Harvey, Frederic A., 105 Judson St., Syracuse, N. Y. (63).
*Harvey, LeRoy Harris, Ph. D., State Normal School, Kalamazoo, Mich. (54). 1911. **G**
Harvey, Nathan Albert, Ph. D., 1029 Ellis St., Ypsilanti, Mich. (52). **L**
Harvey, R. W., Department of Anatomy, University of California, Berkeley, Cal. (65). **K**
Harvey, Ruth Sawyer, Ph. D., 1702 Master St., Philadelphia, Pa. (60). **E**
Harvey, Samuel Clark, M. D., Loomis Sanitorium, Loomis, N. Y. (64). **K**
Harvey, William Stooker, President, National Board of Trade, 100 Broadway, New York, N. Y. (47).
Haseman, Charles, Ph. D., Professor of Mathematics and Mechanics, University of Nevada, Reno, Nev. (58). **A B D**
Haseman, Leonard, Ph. D., Assistant Professor of Entomology, College of Agriculture, Columbia, Mo. (60). **F**
Haserot, Samuel F., 1972 Ford Drive, Cleveland, Ohio. (63).
Haskell, Eugene Elwin, Director, College of Civil Engineering, Cornell University, Ithaca, N. Y. (39). 1896. **A B D**
*Haskell, Mellen Woodman, Ph. D., Professor of Mathematics, University of California, Berkeley, Cal. (54). 1906. **A L**

*Haskins, Charles Nelson, Ph. D., Assistant Professor of Mathematics, Dartmouth College, Hanover, N. H. (60). 1910. **A**

Haskins, Henri D., Professor of Chemistry, Massachusetts Agricultural Experiment Station, Amherst, Mass. (60). **C**

Haskins, Myrtilla M., Scott High School, Toledo, Ohio. (64).

*Hasselbring, Heinrich, Ph. D., U. S. Department of Agriculture, Washington, D. C. (61). 1911. **G**

Hasslacher, Jacob, 100 William St., New York, N. Y. (50). **C**

*HASTINGS, CHARLES SHELDON, Ph. D., Professor of Physics, Sheffield Scientific School, Yale University, New Haven, Conn. (25). 1878. **B**

*Hastings, Edwin George, Associate Professor of Bacteriology, University of Wisconsin, Madison, Wis. (50). 1910. **C K**

Hastings, Hudson Bridge, Professor of Mechanical Drawing and Surveying, Reed College, Portland, Ore. (63). **D**

*Hastings, Thomas Wood, M. D., 172 East 71st St., New York, N. Y. (57). 1909. **K L**

*Hastings, William Walter, Ph. D., Normal School of Physical Education, Battle Creek, Mich. (54). 1913. **H K**

*Hatai, Shinkishi, Ph. D., Wistar Institute of Anatomy, Philadelphia, Pa. (62). 1911. **K**

*Hatcher, Robert Anthony, M. D., 414 East 26th St., New York, N. Y. (62). 1911. **K**

Hately, John C., Chicago Beach Hotel, Chicago, Ill. (58).

*Hathaway, Arthur Stafford, Professor of Mathematics, Rose Polytechnic Institute, Terre Haute, Ind. (58). 1908. **A B C D**

*Hatt, William Kendrick, Ph. D., Professor of Civil Engineering, Purdue University, La Fayette, Ind. (57). 1911. **D**

Haughwout, Frank G., 316 West 79th St., New York, N. Y. (63). **F**

Haupt, Louis, M. D., 232 East 19th St., New York, N. Y. (60). **K**

Havens, Verne LeRoy, C. E., 4*a* Puente de Alvarado No. 92, Mexico, D. F., Mexico. (60). **D**

Hawes, Joseph H., 74 Bernard St., Dorchester Center, Mass. (58). **B D**

*Hawk, Philip Bovier, Ph. D., Professor of Chemistry, Jefferson Medical College, Philadelphia, Pa. (58). 1910. **C K**

Hawke, Anne Shoemaker, Rose Valley, Moylan, Pa. (65).

Hawkes, Forbes, M. D., 124 East 65th St., New York, N. Y. (60). **K**

*Hawkesworth, Rev. Alan Spencer, R. S. A., Sheridanville, Pittsburgh, Pa. (58). 1911. **A**

Hawkins, Alfred Cary, Brown University, Providence, R. I. (64).

Hawkins, C. A., 519 Merchants National Bank Building, San Francisco, Cal. (66).

Hawkins, Layton S., 1082 Madison Ave., Albany, N. Y. (57). **G L**

*Hawkins, Lon A., Ph. D., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (58). 1913. **G**

*Haworth, Erasmus, Ph. D., Professor of Geology, University of Kansas, Lawrence, Kans. (58). 1910. **E**

Hawxhurst, Robert, Jr., C. E., General Manager, Poderosa Mining Co., Antofagasta, Chile, S. A. (53). **D**

Hay, Clarence L., 800 16th St., Washington, D. C. (64).

*Hay, Oliver Perry, Ph. D., 1211 Harvard St. N. W., Washington, D. C. (49). 1901. **E F**

*Hay, William Perry, Professor of Biology, McKinley High School, Washington, D. C. (49). 1907. **F**

Hayden, Ada, Department of Botany, Iowa State College, Ames, Iowa. (62). **G**

Hayden, Horace Edwin, Jr., Assistant Professor of Biology, A. and M. College of Texas, College Station, Texas. (58). **F G**

Hayden, William B., Catskill, N. Y. (57).

*Hayes, Charles Willard, Ph. D., LL. D., 47 Parliament St., Westminster, London, England. (51). 1905. **E**

*Hayes, Ellen, Professor of Astronomy, Wellesley College, Wellesley, Mass. (52). 1905. **A**

Hayes, George Samuel, C. E., 1123 Broadway, New York, N. Y. (60). **D**

*Hayes, Herbert Kendall, University Farm, St. Paul, Minn. (61). 1911. **G**

Hayes, Joseph Wanton, Ph. D., Faculty Exchange, University of Chicago, Chicago, Ill. (64).

Hayes, Martin L., Professor of Agricultural Education, A. and M. College of Texas, College Station, Texas. (65). **L M**

Hayes, Mary Helen Stevens, Ph. D., Faculty Exchange, University of Chicago, Chicago, Ill. (64).

*Hayford, John Fillmore, C. E., Director, College of Engineering, Northwestern University, Evanston, Ill. (46). 1898. **A B D**

*Hayhurst, Paul, Professor of Entomology, University of Arkansas, Fayetteville, Ark. (58). 1914. **F**

*Haynes, Eli Stuart, Ph. D., 948 Montgomery Park, Beloit, Wis. (60). 1913. **A**

Haynes, Miss Julia Anna, State Normal School, Hyannis, Mass. (47). **F G K**

Haynes, Winthrop Perrin, 74 Beacon St., Hyde Park, Mass. (60).

Hays, B. Frank, 431 Riverside Drive, New York, N. Y. (49).

Hays, John Coffee, E. E., Visalia, Cal. (58). **D**

Hays, William Henry, Tracyton, Wash. (58). **A**

*Haythorn, Samuel Reese, M. D., Allegheny General Hospital, Pittsburgh, Pa. (64). 1915. **K**

Hayward, Robert Francis, C. E., Western Canada Power Co., Ltd., Vancouver, B. C., Canada. (60). **D**

Hayward, William R., 617 Castillo St., Santa Barbara, Cal. (66). **E**

*Hazard, Daniel Lyman, U. S. Coast and Geodetic Survey, Washington, D. C. (48). 1910. **B**

Hazard, Frederic Seymour, Assistant Secretary, A. A. A. S., Smithsonian Institution, Washington, D. C. (62). **C F K**

Hazard, Frederick Rowland, President, Solvay Process Co., Syracuse, N. Y. (63). **C**

*Hazard, Hon. Rowland Gibson, Peace Dale, R. I. (50). 1906. **C**

*Hazen, Tracy Elliot, Ph. D., Professor of Botany, Barnard College, Columbia University, New York, N. Y. (50). 1902. **G**

*Headlee, Thomas J., Ph. D., Professor of Entomology, Rutgers College, New Brunswick, N. J. (52). 1913. **F**

Headley, F. B., U. S. Experiment Farm, Fallon, Nev. (65).

*Heald, Frederick DeForest, Ph. D., Professor of Plant Pathology, State College of Washington, Pullman, Wash. (50). 1904. **G**

Heaps, William James, 310 West Hoffman St., Baltimore, Md. (60). **C**

Hearne, Robert Joseph, M. E., 12 Wooster St., New York, N. Y. (58). **D**

Heath, Prof. Eugene Schofield, 2936 Inyo St., Fresno, Cal. (62). **F**

HEBARD, MORGAN, Chestnut Hill, Philadelphia, Pa. (63).

Hebb, Thomas Carlyle, Professor of Physics and Chemistry, Northern State Normal School, Marquette, Mich. (64). **B C**

Hebbard, Ellery Cola, M. D., 122 Huntington Ave., Boston, Mass. (51). **D K**

*Hebert, P., M. D., 313 Stephenson Ave., Iron Mountain, Mich. (60). **K**

Heck, William Harry, Ph. D., Professor of Education, University of Virginia, Charlottesville, Va. (65). 1915. **L**

Heddle, John Ronald, Public Museum, Milwaukee, Wis. (65). **F**

*Hedgcock, George Grant, Ph. D., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (50). 1904. **G**

Hedge, Frederic Henry, 440 Boylston St., Brookline, Mass. (28). **F H**

Hedges, Miss Florence, U. S. Department of Agriculture, Washington, D. C. (65). **G**

*Hedrick, Earle Raymond, Ph. D., Professor of Mathematics, University of Missouri, Columbia, Mo. (58). 1908. **A**

*Hedrick, Henry Benjamin, Yale University, New Haven, Conn. (40). 1896. **A**

*Hedrick, Ulysses Prentiss, Horticulturist, N. Y. Agricultural Experiment Station, Geneva, N. Y. (60). 1911. **G**

Hedrick, William A., Ph. D., Professor of Physics, McKinley Manual Training School, Washington, D. C. (60). **B C L**

Heermance, Van Ness, President, Virginia Concrete and Engineering Company, Rocky Mount, Va. (60). **C D E**

*Hegner, Robert W., Ph. D., Assistant Professor of Zoology, University of Michigan, Ann Arbor, Mich. (63). 1913. **F**

*Heidemann, Otto, Forest Glen, Md. (58.) 1913. **F**

*Heine, Aida Agnes, Associate Professor of Geology, Smith College, Northampton, Mass. (64). 1915. **E**

*Heinemann, Paul Gustav, Ph. D., Assistant in Bacteriology, University of Chicago, Chicago, Ill. (58). 1911. **F**

Heinze, Arthur P., Vice-President, United Copper Co., 220 Madison Ave., New York, N. Y. (57).

*Hektoen, Ludvig, M. D., Professor of Pathology, University of Chicago, Chicago, Ill. (52). 1906. **K**

Heldt, Thomas Johannes, 200 E. Lanvale St., Baltimore, Md. (66). **F K**

Helland, John W., M. D., Maynard, Minn. (60). **K**

Helmer, Mrs. Adell Gill, 11 Arthur St., Atlanta, Ga. (63).

Hemenway, Ansel F., Ph. D., Professor of Biology, Transylvania University, Lexington, Ky. (63). **F**

Hemenway, Miss Clara, 242 Beacon St., Boston, Mass. (61).

Hemingway, Frank, 6 East Union Ave., Bound Brook, N. J. (60). **C**

*Hemmeter, John Cohn, M. D., Ph. D., LL. D., 739 University Parkway, Roland Park, Baltimore, Md. (51). 1906. **K L**

Hemstreet, George P., M. E., Hastings upon Hudson, N. Y. (66). **D**

*Henchman, Miss Annie Parker, P. O. Box 34, Jaffrey, N. H. (54). 1906. **F**

Henderson, C. Hanford, Ph. D., Samarcand, N. C. (61). **E I L**

Henderson, George Dallas, M. D., 276 Maple St., Holyoke, Mass. (60). **K**

Henderson, John Brooks, Jr., 16th St. above Florida Ave., Washington, D. C. (60).

*Henderson, Prof. Junius, Curator of the Museum, University of Colorado, Boulder, Colo. (50). 1906. **E F**

*Henderson, Lawrence Joseph, M. D., Professor of Biological Chemistry, Harvard University, Cambridge, Mass. (62). 1914. **C F**

Henderson, Lena Bondurant, University of Tennessee, Knoxville, Tenn. (65). **G**

*Henderson, Velyien Ewart, M. D., Associate Professor of Pharmacy and Pharmacology, University of Toronto, Toronto, Canada. (60). 1911. **K**

*Henderson, William Edwards, Ph. D., Associate Professor of Chemistry, Ohio State University, Columbus, Ohio. (50). 1901. **C**

*Henderson, Yandell, Ph. D., Professor of Physiology, Yale University Medical School, New Haven, Conn. (57). 1908. **K**

Hendren, Linville L., Ph. D., Professor of Physics, University of Georgia, Athens, Ga. (63). **B**

Hendrick, A. W., President, University of Nevada, Reno, Nevada. (66). **L**

Hendrick, Ellwood, 139 East 40th St., New York, N. Y. (57). **C**

Henius, Max, Ph. D., 1135 Fullerton Ave., Chicago, Ill. (52). **C L**

*Henmon, Vivian A. C., Ph. D., Professor of Education, University of Wisconsin, Madison, Wis. (54). 1906. **H L**

Henn, Arthur W., 821 Atwater Avenue, Bloomington, Ind. (66). **F**

Hennen, Ray Vernon, C. E., West Virginia Geological Survey, Morgantown, W. Va. (50). **D E**

*Henrich, Carl, E. M., Metasville, Ga. (50). 1911. **A E I**

*Henricksen, Henrick Christian, Stanfordville, N.Y. (60). 1911. **C F G**
Henriques, Henry A., M. D., 170 South St., Morristown, N. J. (60). **K**
*Henry, Prof. Alfred Judson, 1322 Columbia Road, Washington, D. C. (49). 1901. **A B**
Henry, Charles C., M. D., 56 Clark St., Brooklyn, N. Y. (43). **K**
*Henry, David H., Associate Professor of Chemistry, Clemson Agricultural College, Clemson College, S. C. (65). 1915. **C**
Henry, Philip S., 1402 Massachusetts Ave., Washington, D. C. (64).
*Henshaw, Henry Wetherbee, Chief, Biological Survey, U. S. Department of Agriculture, Washington, D. C. (55). 1914. **F H**
Henslin, Aaron E., M. D., Le Roy, Minn. (60). **K**
Herb, Arthur, M. E., 1459 St. James Court, Louisville, Ky. (58). **D**
*Hering, Carl, M. E., Sc. D., 929 Chestnut St., Philadelphia, Pa. (62). 1915. **D**
*Hering, Daniel Webster, Ph. D., LL. D., Professor of Physics and Applied Mechanics, New York University, New York, N. Y. (50). 1906. **B D**
*Hering, Rudolf, C. E., 170 Broadway, New York, N. Y. (33). 1885. **D E I**
Hermann, Adam, American Museum of Natural History, New York, N. Y. (63). **F**
Herms, Edward, 689 Bedford Ave., Columbus, Ohio. (58). **C**
*Herms, William Brodbeck, Assistant Professor of Entomology, University of California, Berkeley, Cal. (57). 1913. **F**
Herr, Hiero B., C. E., M. E., 4216 Ellis Ave., Chicago, Ill. (50). **D E**
*Herrick, Charles Judson, Ph. D., Department of Anatomy, University of Chicago, Chicago, Ill. (49). 1901. **F**
Herrick, Cheesman Abiah, Ph. D., President, Girard College, Philadelphia, Pa. (66). **L**
*Herrick, Francis Hobart, Sc. D., Ph. D., Professor of Biology, Adelbert College, Cleveland, Ohio. (52). 1905. **F**
*Herrick, Glenn Washington, Professor of Economic Entomology, Cornell University, Ithaca, N. Y. (50). 1913. **F**
*Herrick, Joseph Cawdell, Ph. D., Professor of Biology, St. Joseph's Seminary, Yonkers, N. Y. (56). 1911. **H K**
Herrington, John Cornelius, M. D., Asylum, Miss. (65). **K**
*Herrmann, Richard, 2419 Couler Ave., Dubuque, Iowa. (50). 1902. **E F H**
*Hersam, Ernest Albion, Associate Professor of Metallurgy, University of California, Berkeley, Cal. (60). 1915. **D**
Hersey, Henry B., U. S. Weather Bureau, Milwaukee, Wis. (62). **A B**
*Hershey, Oscar H., Kellogg, Idaho. (65). 1915. **E**
Hershey, Prof. J. Willard, Defiance College, Defiance, Ohio. (65).
*Herty, Charles Holmes, Ph. D., Professor of Chemistry, University of North Carolina, Chapel Hill, N. C. (42). 1895. **C**
*Hertzler, Arthur Emanuel, M. D., Ph. D., 1004 Rialto Building, Kansas City, Mo. (58). 1911. **K**

Hertzog, P. H., Peddie Institute, Hightstown, N. J. (57). **F**

*Hervey, Rev. Alpheus Baker, Ph. D., Bath, Me. (22). 1879. **A G**

Herzig, Charles S., E. M., 1 London Wall Buildings, London, E. C., England. (60). **D**

Herzog, Felix Benedict, Ph. D., President, Herzog Teleseme Co., 137 West 23d St., New York, N. Y. (50). **D**

*Herzog, Maximilian, M. D., Suite 1604, Mallers Building, Chicago, Ill. (58). 1909. **H K**

Herzstein, Morris, M. D., 805 Sutter St., San Francisco, Cal. (52). **K**

Hess, Emory Le Roy, 4800 West Chicago Ave., Chicago, Ill. (60).

Hess, Frederick Andrew, M. D., Ph. D., 526 West Division St., Chicago, Ill. (58). **K**

Hess, Frederick Edward, care Hess and Skinner Engineering Co., Dallas, Texas. (64). **D**

Hess, Henry W., The Libbey Glass Co., Toledo, Ohio. (60). **C**

Hess, Selmar, Publisher, 151 West 19th St., New York, N. Y. (53). **I K L**

*Hesse, Bernhard Conrad, Ph. D., 90 William St., New York, N. Y. (60). 1910. **C**

Hessenmueller, E. L., 1625 West 25th St., Cleveland, Ohio. (65).

*Hessler, John Charles, Ph. D., 1130 West North St., Decatur, Ill. (58). 1910. **C**

*Hessler, Robert, M. D., Logansport, Ind. (54). 1909. **G H K**

Heuel, Emil, M. D., 151 West 87th St., New York, N. Y. (60). **K**

*Heuer, George Julius, M. D., Johns Hopkins Hospital, Baltimore, Md. (60). 1911. **K**

Heurich, Christian, 1307 New Hampshire Ave., Washington, D. C. (62). **C**

Hewerdine, Thomas Sloan, C. E., Olivia, Minn. (58). **A B C D**

Hewett, Donnel Foster, E. M., care U. S. Geological Survey, Washington, D. C. (62). **E**

*Hewett, Edgar Lee, Director, School of American Archaeology, Santa Fe, N. M. (50). 1910. **H**

Hewins, Nellie Priscilla, Clermont Terrace, Elmhurst, L. I., N. Y. (60). **K**

*Hewitt, C. Gordon, Ph. D., Department of Agriculture, Ottawa, Canada. (60). 1913. **F**

Hewitt, Joseph H., M. D., Cleveland City Hospital, Cleveland, Ohio. (60). **K**

Hewitt, William F., M. D., Presbyterian Hospital, Chicago, Ill. (63). **K**

*Hewlett, Albion Walter, M. D., 1835 Cambridge Road, Ann Arbor, Mich. (63). 1914. **K**

*Hewson, Addinell, M. D., 2120 Spruce St., Philadelphia, Pa. (60). 1911. **K**

HEXAMER, CHARLES JOHN, C. E., LL. D., 419 Walnut St., Philadelphia, Pa. (33). **B C**

Heyer, William D., 523 South Broad St., Elizabeth, N. J. (33). **B D L**

*Heyl, Paul Renno, Ph. D., care Commercial Research Co., Tuckahoe, N. Y. (54). 1911. **B**

*Hibbard, Rufus P., Ph. D., Michigan Agricultural College, East Lansing, Mich. (54). 1911. **G K**

*Hice, Richard R., Beaver, Pa. (41). 1906. **A B C E**

Hick, L. A., M. D., Delta, Colo. (60). **K**

Hickernell, Louis Max, Syracuse University, Syracuse, N. Y. (65). **F**

Hickman, J. B., Aromas, Cal. (65).

Hicks, Edwin Francis, 4837 Fairmont Ave., Philadelphia, Pa. (58). **C**

Hicks, Leslie Robert, 14 Warwick Road, Melrose Highlands, Mass. (64). **D**

Hidershide, George N., M. D., Arcadia, Wis. (58). **K**

Higbee, George G., E. M., Murray Iron Works Co., Burlington, Iowa. (60). **D**

Higby, G. O., Ohio Wesleyan University, Delaware, Ohio. (63).

*Higdon, John E., 1111 West 47th St., Los Angeles, Cal. (54). 1906. **A B D K**

*Higgins, Prof. J. Edgar, Hawaii Agricultural Experiment Station, Honolulu, Hawaii. (57). 1911. **G**

Higgins, Lafayette, C. E., Sanitary Engineer, Iowa State Board of Health, Des Moines, Iowa. (51). **C D**

Higginson, Henry Lee, LL. D., 44 State St., Boston, Mass. (60).

Hightower, George R., President, Mississippi A. and M. College, Agricultural College, Miss. (64). **G**

Hilbert, Alfred, E. E., 631 46th St., Brooklyn, N. Y. (60). **D**

*Hildebrand, Joel Henry, Ph. D., Professor of Chemistry, University of California, Berkeley, Cal. (65). 1915. **C**

*Hildebrandt, Theophil Henry, Ph. D., 513 Elm St., Ann Arbor, Mich. (58). 1911. **A**

*Hilditch, Warren Witherell, Ph. D., Orange Memorial Hospital, 224 Essex Ave., Orange, N. J. 1911. **C**

Hileman, Allen Irving, R. F. D. 2, Paxton, Ill. (61). **G L**

*Hilgard, Eugene Woldemar, Ph. D., LL. D., Dean and Director, College of Agriculture, University of California, Berkeley, Cal. (11). 1874. **B C E**

*Hill, Albert Frederick, Osborn Botanical Laboratory, New Haven, Conn. (61). 1915. **G**

Hill, Albert James, New Westminster, B. C., Canada. (63).

*Hill, Albert Ross, Ph. D., LL. D., President, University of Missouri, Columbia, Mo. (58). 1910. **H L**

*Hill, Arthur Edward, Ph. D., Professor of Chemistry, New York University, New York, N. Y. (58). 1911. **C**

Hill, Burritt Howell, First National Bank, Neodesha, Kansas. (65).

Hill, Charles O., 1835 Melrose Ave., Knoxville, Tenn. (64).

*Hill, David Spence, Ph. D., Director, Department of Educational Research, Public Schools, New Orleans, La. (60). 1911. **H L**

*Hill, Eben Clayton, M. D., First Lieut., Medical Corps, U. S. A., College Ave., Poughkeepsie, N. Y. (54). 1906. **K**

*Hill, Edwin Allston, Ph. D., Assistant Professor of Chemistry, George Washington University, Washington, D. C. (52). 1911. **C D**

Hill, Herbert M., University of Buffalo, Buffalo, N. Y. (58). **B C**

*Hill, John Edward, Sc. D., Professor of Civil Engineering, Brown University, Providence. R. I. (44). 1897. **D**

Hill, Joseph Henry, D. D., LL. D., President, Kansas State Normal Schools, Emporia, Kan. (61). **L**

*Hill, Lewis D., Hunter College of the City of New York, New York, N. Y. (58). 1910. **B C**

*Hill, Robert Thomas, Trinity Building, New York, N. Y. (36). 1889. **E**

Hill, William K., Carthage College, Carthage, Ill. (54). **G**

HILLE, HERMANN, Ph. D., 416 North Kenilworth Ave., Oak Park, Ill. (63). **C K**

*Hillebrand, William Francis, Ph. D., Bureau of Standards, Washington, D. C. (51). 1903. **C**

*Hillegas, Milo B., Teachers College, Columbia University, New York, N. Y. (62). 1912. **L**

Hiller, Rev. Karl Wilhelm George, Ph. D., Elgin, Nebraska. (65).

Hiller, Sydney Edward, Alabama Marble Co., 530 Brown-Marx Building, Birmingham, Ala. (65).

*Hilliard, Prof. Curtis Morrison, Simmons College, Boston, Mass. (62). 1915. **F**

Hillig, Frederick J., S. J., 7 Kioicho, Kojimachi, Tokyo, Japan. (50). **B H**

Hillman, Oliver S., M. D., New York Post-Graduate Medical School, New York, N. Y. (65). **K**

Hills, Alfred Kimball, M. D., 541 West End Ave., New York, N. Y. (57). **K**

Hills, Joseph Lawrence, Sc. D., Dean, College of Agriculture, University of Vermont, Burlington, Vt. (63). **G M**

Hills, Richard Charles, Ernest and Cranmer Building, Denver, Colo. (62). **E**

HILLS, THOMAS MCDOUGALL, Assistant Professor of Geology, Ohio State University, Columbus, Ohio. (61). **E**

Hilpert, Willis S., Ph. D., 543 East 34th St., Chicago, Ill. (58). **C K**

*Hilprecht, Hermann Vollrat, Ph. D., D. D., LL. D., Leopold Strasse 8, Munich, Germany. (54). 1906. **H**

Hiltebeitel, Adam Miller, Ph. D., Trappe, Pa. (58). **A**

Hilton, David Clark, M. D., 305 Richards Block, Lincoln, Nebr. (58). **F K**

*Hilton, William Atwood, Ph. D., Claremont, Cal. (49). 1906. **F H K**

*Himes, Charles Francis, Ph. D., LL. D., Carlisle, Pa. (29). 1882. **B C**

Himes, George Henry, 207 2d St., Portland, Oregon. (65).

*Himowich, Adolph A., M. D., 1913 Madison Ave., New York, N. Y. (51). 1906. **A K**

Hinchman, Charles S., 3635 Chestnut St., Philadelphia, Pa. (65).

Hinchman, Mrs. Lydia S., 3635 Chestnut St., Philadelphia, Pa. (57). **A E**

*Hinckley, Edwin Smith, Professor of Geology, Brigham Young University, Provo, Utah. (62). 1915. **E**

Hindle, Edward, Quick Laboratory, Cambridge, England. (61). **F**

*Hinds, Henry, U. S. Geological Survey, Washington, D. C. (62). 1914. **E**

*Hinds, John I. D., Ph. D., LL.D., Cumberland University, Lebanon, Tenn. (55). 1908. **C**

*Hinds, Warren Elmer, Ph. D., Professor of Entomology, Alabama Polytechnic Institute, Auburn, Ala. (54). 1906. **F L**

*Hine, James Stewart, Associate Professor of Zoology and Entomology, Ohio State University, Columbus, Ohio. (48). 1904. **F**

*Hines, Murray Arnold, Ph. D., 1704 Hinman Ave., Evanston, Ill. (60). 1911. **C**

Hinkel, Frank Whitehill, M. D., 581 Delaware Ave., Buffalo, N. Y. (60). **K**

Hinkins, John Edward, M. D., 1467 East 53d St., Chicago, Ill. (58). **K**

*Hinman, Jack Jones, Jr., State University of Iowa, Iowa City, Iowa. (62). 1915. **C**

*Hinrichs, Gustavus Detlef, M. D., 4106 Shenandoah Ave., St. Louis, Mo. (17). 1874. **B C**

*Hinsdale, Wilbert B., M. D., University of Michigan, Ann Arbor, Mich. (54). 1909. **H K**

Hinton, William Augustus, M. D., 1560 Cambridge St., Cambridge, Mass. (60). **C K**

*Hirschfelder, Arthur Douglas, M. D., University of Minnesota, Minneapolis, Minn. (60). 1910. **K**

*Hirschfelder, Joseph Oakland, M. D., Professor of Clinical Medicine, Cooper Medical College, San Francisco, Cal. (51). 1909. **K**

Hirschler, Edmund John, Bluffton College, Bluffton, Ohio. (65). **A B**

Hirshberg, Leonard Keene, M. D., 1937 Madison Ave., Baltimore, Md. (60). **K**

Hirshfeld, Clarence Floyd, Professor of Power Engineering, Cornell University, Ithaca, N. Y. (54). **B C D**

Hitch, Miss Lola S., Palmyra, N. J. (61).

*Hitchcock, Albert Spear, Division of Agrostology, U. S. Department of Agriculture, Washington, D. C. (39). 1892. **G**

Hitchcock, Miss Caroline Judson, 539 Broad St., Meriden, Conn. (50). **B E G**

*HITCHCOCK, CHARLES HENRY, Ph. D., LL. D., Honolulu, Hawaii. (11). 1874. **E**

*Hitchcock, Fanny R. M., Ph. D., 4038 Walnut St., Philadelphia, Pa. (35). 1906. **F**

*Hitchcock, Hon. Frank Harris, 25 Claremont Ave., New York, N. Y. (49). 1901. I

*Hitchens, A. Parker, M. D., Glen Olden, Pa. (58). 1909. K

*Hite, Bert Holmes, Professor of Agricultural Chemistry, College of Agriculture, Morgantown, W. Va. (60). 1911. C

Hite, J. Ewing, Gallatin, Tenn. (62). G

Hite, Lewis Field, 42 Arlington St., Cambridge, Mass. (58). H L

*Hitzrot, James Morley, M. D., 126 East 37th St., New York, N. Y. (57). 1909. K

*Hoad, William Christian, Professor of Sanitary Engineering, University of Michigan, Ann Arbor, Mich. (54). 1912. D

Hoadley, George Arthur, Sc. D., Professor of Physics, Swarthmore College, Swarthmore, Pa. (40). 1900. C

Hoagland, D. R., Faculty Club, Berkeley, Cal. (66).

Hoagland, Ralph, Professor of Soils, University of Minnesota, Minneapolis, Minn. (53). C

*Hobbs, William Herbert, Ph. D., University of Oregon, Eugene, Oregon. (41). 1893. E

Hobby, C. M., M. D., Iowa City, Iowa. (51). K

*Hoch, August, M. D., Director, Psychiatric Institute, Ward's Island, New York, N. Y. (60). 1911. K

*Hodge, Clifton Fremont, Ph. D., Professor of Biology, Clark University, Worcester, Mass. (58). 1910. F G K L

*Hodge, Frederick Humbert, Professor of Mathematics, Franklin College, Franklin, Ind. (50). 1908. A

*Hodge, Frederick Webb, Bureau of American Ethnology. Smithsonian Institution, Washington, D. C. (52). 1904. H

Hodge, James M., E. M., Big Stone Gap, Va. (29). D E

Hodges, Robert Shattuck, Alabama Geological Survey, University, Ala. (54). C E

*Hodgkins, Howard Lincoln, Ph. D., Head, Department of Mathematics, and Dean, College of Engineering, George Washington University, Washington, D. C. (40). 1896. A C D

Hodgkins, William Candler, Director of Coast Surveys, Manila, P. I. (52). A D E

Hoe, Mrs. R., Jr., 180 W. 59th St., New York, N. Y. (36).

Hoe, Mrs. Richard March, 11 East 71st St., New York, N. Y. (36). L

*Hoen, Albert Berthold, Dixon Park, Mt. Washington, Md. (60). 1915. E

Hoes, Roswell Randall, Chaplain, U. S. N., Navy Yard, Norfolk, Va. (62).

*Hoexter, Samuel J., Department of Engineering, University of Michigan, Ann Arbor, Mich. (64). 1915. D

Hofer, J. K.. C. E., Prince Albert, Saskatchewan, Canada. (64). C D

Hoff, Alfred, M. D., 939 Lowry Building, St. Paul, Minn. (64). K

Hoff, Olaf, C. E., 149 Broadway, New York, N. Y. (57). D

Hoffman, Christian Balzac, Enterprise, Kansas. (50). **D H**

*Hoffman, Frank Sargent, Ph. D., Professor of Philosophy, Union University, Schenectady, N. Y. (52). 1906. **F**

Hoffman, George Edgar, "Longcliff," Logansport, Ind. (57). **K**

*HOFFMAN, SAMUEL VERPLANCK, Morristown, N. J. (52). 1906. **A D**

Hoffmann, Conrad, Agricultural Experiment Station, University of Wisconsin, Madison, Wis. (57). **K**

*HOFFMANN, DR. FRIEDRICH, Charlottenburg, Kant Str. 125, Berlin, Germany. (28). 1881. **C F**

Hofstetter, George A., M. D., 108 South Beaton St., Corsicana, Texas. (58). **K**

Hogan, James Joseph, M. D., 291 Geary St., San Francisco, Cal. (63). **K**

Hogan, Mrs. Louise E., Lock Box 337, Philadelphia, Pa. (52). **C D H I K L**

Hogg, Elton M., Saratoga, Cal. (62). **C E**

*Hogrefe, Louis, 1221 Lincoln Place, Brooklyn, N. Y. (58). 1911. **A B C D E**

*Hogue, Mary J., Ph. D., 14 Norfolk Terrace, Wellesley, Mass. (62). 1913. **F**

Hohf, Julian A., M. D., Tripp, S. D. (60). **K**

Holaday, Horace A., University of Idaho, Moscow, Idaho. (66).

Holbrook, Percy, 185 Madison Ave., New York, N. Y. (51). **D**

Holcomb, Louise, Head, Department of Physics, Pennsylvania College for Women, Pittsburgh, Pa. (65). **A**

Holcomb, Richmond Cranston, M. D., Surgeon, U. S. N., 1713 Q St. N. W., Washington, D. C. (65). **K**

*Holden, Edwin Chapin, Professor of Mining Engineering, University of Wisconsin, Madison, Wis. (62). 1915. **D**

HOLDEN, MRS. L. E., The Hollenden, Cleveland, Ohio. (35).

*Holden, Roy Jay, E. M., Blacksburg, Va. (60). 1911. **E**

Holder, Francis J., Ph. D., Professor of Mathematics, University of Pittsburgh, Pittsburgh, Pa. (61). **A B**

Holding, Arthur, M. D., 98 Chestnut St., Albany, N. Y. (58). **K**

*Holferty, George Mellinger, Ph. D., Department of Botany, Central High School, St. Louis, Mo. (50). 1905. **E G**

*Holgate, Thomas Franklin, Ph. D., LL. D., Professor of Mathematics, Northwestern University, Evanston, Ill. (58). 1910. **A L**

Holland, Robert A., M. D., Calais, Me. (60). **K**

*Holland, William Jacob, Sc. D., Ph. D., LL. D., Director, Carnegie Museum, Pittsburgh, Pa. (37). 1896. **E F G H L**

*Holland, William West, Ph. D., 1122 Madison Ave., Baltimore, Md. (58). 1911. **C**

*Hollick, Charles Arthur, Ph. D., S. I. Association of Arts and Sciences, New Brighton, N. Y. (31). 1892. **E G**

*Hollingworth, Harry Levi, Ph. D., Columbia University, New York, N. Y. (61). 1911. **H**

Hollinshead, Warren H., Sc. D., Wingrove Ave., Nashville, Tenn. (37). **C**

*Hollis, Frederic Stearns, Ph. D., Dudley Road, Charlton, Mass. (60). 1911. C

Hollis, Ira Nelson, Sc. D., President, Worcester Polytechnic Institute, Worcester, Mass. (65). D

Hollister, Emily C., 600 N. Kenmore Ave., Los Angeles, Cal. (66).

Hollister, Frank Canfield, M. D., 264 West 77th St., New York, N. Y. (57). K

*Hollister, N., U. S. National Museum, Washington, D. C. (57). 1911. F

*Holloway, Thomas E., U. S. Department of Agriculture, Audubon Park, New Orleans, La. (62). 1914. F

Holman, Carl, Presque Isle, Me. (61). F

Holman, Frederick Van Voorhies, 591 Chamber of Commerce Building, Portland, Oregon. (65).

Holman, Richard Morris, University of California, Berkeley, Cal. (55). G

Holman, William Frank, Ph. D., College of Engineering, University of Minnesota, Minneapolis, Minn. (62). B

Holmes, Harriet F., 5218 Kenwood Ave., Hyde Park Station, Chicago, Ill. (62). K

*Holmes, Joseph Austin, Sc. D., LL. D., Director, U. S. Bureau of Mines, Washington, D. C. (33). 1887. D E

*Holmes, Manfred James, Professor of Psychology, Illinois State Normal University, Normal, Ill. (58). 1914. H L

Holmes, Mary Elizabeth, Ph. D., Associate Professor of Chemistry, Mt. Holyoke College, South Hadley, Mass. (60). C

Holmes, Miss Mary S., 147 Manheim St., Philadelphia, Pa. (50). E

*Holmes, Samuel Jackson, Ph. D., Associate Professor of Zoology, University of California, Berkeley, Cal. (51). 1904. F

*Holmes, Prof. William Henry, Head Curator of Anthropology, U. S. National Museum, Washington, D. C. (30). 1883. H

Holmes, Willis Boit, Ph. D., 1337 Buckland Ave., Fremont, Ohio. (62). C

Holsinger, S. J., Sunshine Station, Meteor, Ariz. (58). A H

Holt, Byron Webber, 54 Broad St., New York, N. Y. (60). I

Holt, Caroline Maude, Department of Zoology, Wellesley College, Wellesley, Mass. (65). F

Holt, Erastus Eugene, M. D., 723 Congress St., Portland, Me. (54). I K L

*Holt, Henry, LL. D., 34 West 33d St., New York, N. Y. (29). 1908. I

Holt, Joseph H., M. D., Sherman, Texas. (60). K

Holt, Sidney Viel, 912 West Nevada St., Urbana, Ill. (64). G

Holtgrewe, Frederick W., 1601 Blair Ave., St. Louis, Mo. (60). K

*Holton, Henry D., M. D., Brattleboro, Vt. (44). 1909. I

*Holtz, Frederick Leopold, 1421 President St., Brooklyn, N. Y. (58). 1911. E F G L

*Holway, Ruliff Stephen, Professor of Physical Geography, University of California, Berkeley, Cal. (65). 1915. E

*Holzinger, John M., Professor of Botany, State Normal School, Winona, Minn. (54). 1909. G

Homans, John, M. D., 154 Riverway, Boston, Mass. (60). K

Homburg, Frederick, Teacher of Chemistry, Woodward High School, Cincinnati, Ohio. (51). **C E**

Homer, Charles S., 456 Fourth Ave., New York, N. Y. (29).

Homer, Francis Theodore, 40 Wall St., New York, N. Y. (65).

Homer, Harry L., M. D., 714 Park Ave., Baltimore, Md. (60). **K**

Honey, William, E. E., Tequisquiapan, Queretaro, Mexico. (58). **D**

*Hood, Ozni Porter, Chief Mechanical Engineer, U. S. Bureau of Mines, Pittsburgh, Pa. (51). 1906. **D**

Hood, William, C. E., 1136 Flood Building, San Francisco, Cal. (35). **D**

*Hooker, Davenport, Ph. D., 846 Orange St., New Haven, Conn. (52). 1911. **F K**

*Hooker, Donald Russell, M. D., Assistant Professor of Physiology, Johns Hopkins University, Baltimore, Md. (50). 1907. **K**

Hooker, Henry Daggett, Jr., 846 Orange St., New Haven, Conn. (63). **G**

Hooker, Ransom S., M. D., 175 East 71st St., New York, N. Y. (66). **K**

Hooker, Samuel Cox, Ph. D., 82 Remsen St., Brooklyn, N. Y. (62). **C**

*Hooker, William A., Office of Experiment Stations, U. S. Department of Agriculture, Washington, D. C. (54). 1914. **F**

*Hooper, Everett Dennison, M. D., Ph. D., Warren Chambers, Boston, Mass. (57). 1911. **C K**

Hooper, Mrs. George W., 1300 Jones St., San Francisco, Cal. (66).

*Hooper, William Leslie, Ph. D., Professor of Electrical Engineering, Tufts College, Tufts College, Mass. (60). 1911. **E**

*Hoopes, Homer E., 302 South Orange St., Media, Pa. (52). 1913. **E H**

Hoover, C. F., 1903 East 75th St., Cleveland, Ohio. (63).

*Hoover, Herbert Clark, Red House, Hornton St., London, England. (51). 1915. **E**

Hoover, Mrs. Lou Henry, Red House, Hornton St., London, England. (51). **E**

*Hopkins, Andrew Delmar, Ph. D., Cosmos Club, Washington, D. C. (42). 1899. **F**

Hopkins, Anderson Hoyt, R. F. D. 7, Niles, Mich. (52).

*Hopkins, Arthur John, Ph. D., Amherst College, Amherst, Mass. (44.) 1900. **C**

*Hopkins, B. Smith, Ph. D., 706 W. California St., Urbana, Ill. (60). 1911. **C**

Hopkins, Ben. F., 830 Society for Savings Building, Cleveland, Ohio. (63).

*Hopkins, Cyril George, Ph. D., Professor of Agronomy, University of Illinois, Urbana, Ill. (57). 1909. **C G M**

Hopkins, E. Guy, Professor of Clinical Pathology, University College of Medicine, Richmond, Va. (63). **K**

*Hopkins, Grant Sherman, Sc. D., Cornell University, Ithaca, N. Y. (41). 1900. **F**

Hopkins, Prof. Lewis S., State Normal School, Kent, Ohio. (62). **G**

*Hopkins, Louis J., Winnetka, Ill. (58). 1913. **H I**

Hopkins, Milton J., M. D., 3756 Lindell Boulevard, St. Louis, Mo. (60). **K**

*Hopkins, Rupert Henry, 103 College Ave., West New Brighton, N. Y. (54). 1911. **B**

*Hopkins, Samuel Augustus, M. D., 235 Marlborough St., Boston, Mass. (54). 1911. **K**

*Hopkins, Thomas Cramer, Ph. D., Professor of Geology, Syracuse University, Syracuse, N. Y. (38). 1898. **E**

Hoppenstedt, Edward H., A. W. Hoppenstedt Laboratory, Perry and Mississippi Sts., Buffalo, N. Y. (63).

Hord, A. C., 7404 Euclid Ave., Cleveland, Ohio. (63).

*Hornell, William Garfield, Ph. D., Professor of Physics, Ohio Wesleyan University, Delaware, Ohio. (48). 1911. **B**

*Horn, David Wilbur, Ph. D., Lock Box 12, Bryn Mawr, Pa. (58). 1911. **C**

Horn, Wilbur F., Carlisle, Pa. (60). **C**

*Horne, Herman Harrell, Ph. D., Leonia, N. J. (58). 1910. **H L**

Horne, Perley L., President, Kamehameha Schools, Honolulu, Hawaii. (58). **I L**

*Horne, William Titus, Assistant Professor of Plant Pathology, University of California, Berkeley, Cal. (62). 1913. **G**

Hornsby, John Allan, M. D., 1502 Tower Building, Chicago, Ill. (63). **K**

Hornung, Christian, Sc. D., Professor of Mathematics and Astronomy, Heidelberg University, Tiffin, Ohio. (50). **A D**

Horowitz, Murray P., 1024 Simpson St., Bronx, New York, N. Y. (65). **C K**

Horsley, John Shelton, M. D., 617 West Grace St., Richmond, Va. (60). **K**

Horton, Byron Barnes, Sheffield, Pa. (54). **F G**

Horton, George Diack, Oregon State Agricultural College, Corvallis, Oregon. (65). **G**

Horton, George M., M. D., Cobb Building, Seattle, Wash. (60). **K**

Horton, J. R., 6328 Constance St., New Orleans, La. (63). **F**

*Hortvet, Julius, State Chemist, Old Capitol, St. Paul, Minn. (50). 1906. **C**

*Hoskins, Leander Miller, Professor of Applied Mathematics, Leland Stanford Junior University, Stanford University, Cal. (54). 1906. **A D**

*Hoskins, R. G., Ph. D., Northwestern University Medical School, Chicago, Ill. (61). 1915. **K**

*Hoskins, William, 49 Sixth Ave., La Grange, Ill. (34). 1904. **C**

Hosmer, Ralph S., Professor of Forestry, N. Y. State College of Agriculture, Cornell University, Ithaca, N. Y. (66). **M**

Hosmer, Sidney, E. E., 39 Boylston St., Boston, Mass. (50). **D**

Hotchkiss, Henry DeWitt, 27 Madison Ave., New York, N. Y. (57).

*Hotchkiss, Homer James, Professor of Physics, Drexel Institute, Philadelphia, Pa. (54). 1906. **B**

*Hotchkiss, William Otis, C. E., Wisconsin Geological and Natural History Survey, Madison, Wis. (58). 1913. **D E**

Hotson, John William, Ph. D., 418 East 44th St., Seattle, Wash. (64).
Hottenroth, Adolph C., 303 So. Bayview Ave., Freeport, N.Y. (65).
Hottenroth, Frederick W., 981 Prospect Ave., Bronx, New York, N. Y. (57).
*Hottes, Charles Frederick, Ph. D., Assistant Professor of Botany, University of Illinois, Urbana, Ill. (54). 1909. **G**
*Hough, Garry de N., M. D., 542 County St., New Bedford, Mass. (60). 1914. **K**
*Hough, R. H., Assistant Professor of Physics, University of Pennsylvania, Philadelphia, Pa. (60). 1911. **B D**
*Hough, Theodore, Ph. D., Professor of Physiology, University of Virginia, Charlottesville, Va. (51). 1903. **K**
*Hough, Walter, Ph. D., U. S. National Museum, Washington, D. C. (38). 1890. **H**
Houghton, Clement Stevens, 152 Suffolk Road, Chestnut Hill, Mass. (60).
Houghton, Clinton Osborne, Professor of Zoology and Botany, Delaware College, Newark, Del. (58). **F G**
*Houghton, E. Mark, M. D., 130 Longfellow Ave., Detroit, Mich. (52). 1906. **K**
Houghton, Harris A., M. D., Bayside, L. I., N. Y. (60). **K**
Houk, Ivan Edgar, C. E., care of Morgan Engineering Co., Dayton, Ohio. (64). **D E**
*Houser, Gilbert Logan, Ph. D., Professor of Animal Biology, State University of Iowa, Iowa City, Iowa. (50). 1906. **F K**
Houser, John Samuel, Ohio Agricultural Experiment Station, Wooster, Ohio. (58). **F G**
Houser, True, Ohio Agricultural Experiment Station, Germantown, Ohio. (62). **G**
*Hovda, Olaf, 3910 Peters Ave., Sioux City, Iowa. (62). 1915. **B**
*Hovey, Edmund Otis, Ph. D., Curator of Geology, American Museum of Natural History, New York, N. Y. (36). 1895. **C E**
Hoving, Johannes, M. D., Ph. D., 450 Audubon Ave., New York, N. Y. (60). **K**
Howald, Ferdinand, E. M., 78 Park Drive, Bexley, Columbus, Ohio. (60). **D**
*Howard, Arthur Day, Ph. D., U. S. Biological Station, Fairport, Iowa. (57). 1909. **F K**
*Howard, Burton James, 1212 Decatur St., N. W., Washington, D. C. (60). 1911. **C G**
*Howard, Campbell P., M. D., University Hospital, Iowa City, Iowa. (62). 1915. **K**
*Howard, Charles Danforth, Chemist, N. H. Board of Health, Concord, N. H. (60). 1911. **C**
Howard, Charles P., M. E., 116 Farmington Ave., Hartford, Conn. (51). **D**
Howard, Charles T., 1735 East Ave., Rochester, N. Y. (58). **D F**

*Howard, Charles Walter, College of Agriculture, University Farm, St. Paul, Minn. (58). 1915. **F K**

*Howard, Prof. Curtis C., 151 East Broad St., Columbus, Ohio. (38). 1892. **C**

Howard, Harry Turner, 3513 St. Charles Ave., New Orleans, La. (55).

*Howard, Henry, Chemical Engineer, 36 Amory St., Brookline, Mass. (57). 1908. **C**

*HOWARD, LELAND O., M. D., Ph. D., LL. D., Chief, Bureau of Entomology, U. S. Department of Agriculture, Washington, D. C. (37). 1889. **F**

Howard, Leslie E., 215 Niagara St., Lockport, N. Y. (63). **C**

Howard, Orson, M. D., Curator of Museum, University of Utah, Salt Lake City, Utah, (50). **F K**

*Howard, Samuel Francis, Ph. D., Head, Department of Chemistry, Norwich University, Northfield, Vt. (50). 1901. **B C**

Howard, Walter Lafayette, Ph. D., University Farm School, Davis, Cal. (65). **G**

Howard, William Colman, 246 Washington Ave., Brooklyn, N. Y. (57).

*Howard, William Travis, M. D., Western Reserve Medical College, Cleveland, Ohio. (54). 1906. **K**

*Howat, William Frederick, M. D., 577 Hohman St., Hammond, Ind. (58). 1913. **H K L**

*Howe, Charles Sumner, Sc. D., Ph. D., LL. D., President, Case School of Applied Science, Cleveland, Ohio. (34). 1891. **A D L**

*Howe, Clifton D., Ph. D., Department of Botany, University of Toronto, Toronto, Canada. (57). 1915. **G**

HOWE, ELMER PARKER, P. O. Box 1825, Boston, Mass. (60).

*Howe, Ernest, Ph. D., 77 Rhode Island Ave., Newport, R. I. (52). 1906. **D E**

Howe, Eugene Clarence, Massachusetts Institute of Technology, Boston, Mass. (57). **K**

Howe, Freeland, Jr., Chemist and Bacteriologist, Norway, Maine. (53). **C E F G**

*Howe, George Plummer, M. D., 384 Commonwealth Ave., Boston, Mass. (62). 1913. **K**

*Howe, Henry Marion, LL. D., Broad Brook Road, Bedford Hills, New York, N. Y. (50). 1901. **D**

*Howe, Herbert Alonzo, Sc. D., Ph. D., LL. D., Dean, College of Liberal Arts, University of Denver, University Park, Colo. (50). 1901. **A**

*Howe, James Lewis, M. D., Ph. D., Professor of Chemistry, Washington and Lee University, Lexington, Va. (36). 1888. **C**

*Howe, Malverd A., Professor of Civil Engineering, Rose Polytechnic Institute, Terre Haute, Ind. (58). 1911. **D**

*Howe, Marshall Avery, Ph. D., New York Botanical Garden, Bronx Park, New York, N. Y. (49). 1903. **G**

*Howe Paul Edward, Ph. D., Assistant Professor of Biological Chemistry, Columbia University, New York, N. Y. (58). 1913. **C K**

Howe, Walter Clarke, M. D., 303 Beacon St., Boston, Mass. (60). **K**

Howe, William Bell White, M. D., P. O. Box 12, Hendersonville, N. C. (61). **K**

Howell, A. Brazier, Covina, Cal. (65).

Howell, John White, E. E., 211 Ballantine Parkway, Newark, N. J. (50). **D**

Howell, W. L., Room 314, Custom House, New Orleans, La. (58). **C**

*Howell, William Henry, M. D., Ph. D., LL. D., Professor of Physiology, Johns Hopkins University, Baltimore, Md. (50). 1901. **F K**

Howell, William O., 4310 Pine St., Philadelphia, Pa. (66). **C F**

*Hower, Harry Sloan, Associate Professor of Physics, Carnegie Institute of Technology, Pittsburgh, Pa. (50). 1907. **B**

Howes, Jarvis M., M. D., Sellersburg, Ind. (60). **K**

*Howison, George Holmes, LL. D., 2631 Piedmont Ave., Berkeley, Cal. (54). 1908. **A H I L**

*Howitt, John Eaton, Professor of Botany, Ontario Agricultural College, Guelph, Ont., Can. (63). 1915. **G**

Howland, Clarence Henry, D. D. S., 825 Vermont Ave., Washington, D. C. (63). **K**

*Howland, Henry Raymond, Library Building, Buffalo, N. Y. (60). 1914. **H**

*Howland, John, M. D., Johns Hopkins Hospital, Baltimore, Md. (62). 1914. **K**

Howland, Randolph H., 164 Wildwood Ave., Upper Montclair, N. J. (54). **F**

Howson, Hubert, E. E., 55 Liberty St., New York, N. Y. (60). **D**

*Hoxie, George Howard, M. D., 1334 Rialto Building, Kansas City, Mo. (62). 1911. **K**

*Hoxton, Llewellyn Griffith, Associate Professor of Physics, University of Virginia, Charlottesville, Va. (54). 1906. **B**

*Hoyle, William Evans, Sc. D., Director, National Museum of Wales, City Hall, Cardiff, Wales. (61). 1914. **F**

Hoyt, Olive Sawyer, 52 Niban-cho, Matsuyama, Japan. (52). **C**

Hoyt, Wilbur Franklin, Professor of Physical Science, State Normal School, Peru, Nebr. (62). **B**

*Hoyt, William Dana, M. D., Ph. D., Johns Hopkins University, Baltimore, Md. (60). 1915. **G**

*Hrdlicka, Alës, M. D., Curator of Anthropology, U. S. National Museum, Washington, D. C. (46). 1897. **H K**

*Huard, Rev. Victor Alphonsus, 2 Port-Dauphin St., Quebec, Canada. (63). 1914. **F**

*Hubbard, George David, Ph. D., Professor of Geology, Oberlin College, Oberlin, Ohio. (55). 1909. **E H I L**

Hubbard, Henry R., Plainfield High School, Plainfield, N. J. (64).

*Hubbard, John Charles, Ph. D., Professor of Physics, Clark University, Worcester, Mass. (58). 1911. **B L**

*Hubbard, Marian Elizabeth, Associate Professor of Zoology, Wellesley College, Wellesley, Mass. (58). 1915. **F**

*Hubbard, Prévost, Chief, Division of Roads and Pavements, Institute of Industrial Research, Washington, D. C. (63). 1914. **C D**

Hubbard, Walter Comstock, Coffee Exchange Building, New York, N. Y. (49).

Hubbell, Henry S., Ashburnham, Mass. (57). **D**

Hubbell, J. L., Ganado, Ariz. (58). **H I**

Hubbs, Carl L., 720 Cowper St., Palo Alto, Cal. (65).

*Huber, G. Carl, M. D., Professor of Histology and Embryology, University of Michigan, Ann Arbor, Mich. (50). 1901. **K**

Hubert, J. Frank, M. D., 6820 Union Ave., Chicago, Ill. (60). **K**

Hudelson, R. R., University of Missouri, Columbia, Mo. (66). **M**

*Hudson, Claude Silbert, Ph. D., Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (58). 1911. **B C**

Hudson, Erastus Meade, 39 Broad St., Plattsburg, N. Y. (57). **F**

*Hudson, George Henry, Vice-Principal, Science Department, State Normal School, Plattsburg, N. Y. (31). 1901. **F**

Hudson, James A., 81 Paulding Ave., Tarrytown, N. Y. (57).

Huff, N. L., Assistant Professor of Botany, University of Minnesota, Minneapolis, Minn. (62). **G**

*Huff, William Bashford, Ph. D., Professor of Physics, Bryn Mawr College, Bryn Mawr, Pa. (60). 1910. **B**

Hughes, David Edward, C. E., U. S. Engineer Office, 723 Central Building, Los Angeles, Cal. (60). **D**

Hughes, Francis T., Department of Biology, Boys' High School, Brooklyn, N. Y. (58). **F G L**

*Hughes, Hector James, Professor of Civil Engineering, Harvard University, Cambridge, Mass. (60). 1915. **D**

Hughes, John Wilbur, C. E., General Electric Co., Erie, Pa. (58). **D**

*Hughes, Percy. Ph. D., Assistant Professor of Philosophy and Psychology, Lehigh University, South Bethlehem, Pa. (58). 1915. **H L**

*Hughes, Raymond Mollyneaux, President, Miami University, Oxford, Ohio. (57). 1908. **C**

*Hull, Gordon Ferrie, Ph. D., Professor of Physics, Dartmouth College, Hanover, N. H. (50). 1903. **B**

Hull, Leonard C., M. D., 343 5th St., Hollister, Cal. (66). **C**

Humbert, Eugene Peter, Ph. D., Professor of Agronomy, N. M. College of A. and M. Arts, State College, N. M. (63). **G M**

Hume, A. N., Ph. D., Professor of Agronomy, South Dakota Agricultural Experiment Station, Brookings, S. D. (63). **G M**

*Hume, Alfred, C. E., Sc. D., Professor of Mathematics, University of Mississippi, University, Miss. (39). 1909. **A D**

*Hummel, John Adolph, 2143 Commonwealth Ave., St. Anthony Park, Minn. (48). 1911. **C**

*Humphrey, Clarence John, Forest Products Laboratory, Madison, Wis. (61). 1911. **G**

*Humphrey, Harry Baker, Ph. D., U. S. Department of Agriculture, Washington, D. C. (55). 1911. **G**

*Humphrey, Richard Lewis, C. E., 805 Harrison Building, Philadelphia, Pa. (48). 1902. **D**

*Humphreys, Alexander Crombie, M. D., Sc. D., LL. D., President, Stevens Institute of Technology, Hoboken, N. J. (49). 1907. **D**

Humphreys, David Carlisle, C. E., Professor of Civil Engineering, Washington and Lee University, Lexington, Va. (53). **D**

Humphreys, Frederick B., M. D., 630 West 141st St., New York, N. Y. (57). **K**

*Humphreys, William Jackson, Ph. D., Professor of Meteorology, U. S. Weather Bureau, Washington, D. C. (54). 1906. **A B D**

Hungerford, Herbert B., University of Kansas, Lawrence, Kans. (64). **F**

Hunn, Fred A., P. O. Box 36, Ross, Cal. (65).

Hunn, Chester Jermain, Hawaii Agricultural Experiment Station, Honolulu, Hawaii. (58). **G**

Hunner, Guy Leroy, M. D., 2305 St. Paul St., Baltimore, Md. (60). **K**

Hunt, Agnes, Professor of Domestic Science, Michigan Agricultural College, East Lansing, Mich. (64).

Hunt, Arthur E., Teacher of Biology, Manual Training High School, Brooklyn, N. Y. (54). **F L**

Hunt, Harrison Randall, 69 Oxford St., Cambridge, Mass. (65).

Hunt, N. Rex, U. S. Department of Agriculture, Washington, D. C. (63). **G**

*Hunt, Reid, M. D., Ph. D., Professor of Pharmacology, Harvard University, Cambridge, Mass. (58). 1910. **C K**

Hunt, Rockwell Dennis, Ph. D., R. F. D., Box 88, Inglewood, Cal. (65).

*Hunt, Walter Frederick, Department of Mineralogy, University of Michigan, Ann Arbor, Mich. (57). 1911. **C E**

Hunter, Andrew, Professor of Pathological Chemistry, University of Toronto, Toronto, Canada. (60). **C K**

*Hunter, Andrew Frederick, Normal School Building, Toronto, Canada. (38). 1896. **B H I**

Hunter, George E., M. E., Superintendent, Elgin National Watch Co., Elgin, Ill. (60). **D**

*Hunter, George William, Head, Department of Biology, DeWitt Clinton High School, New York, N. Y. (51). 1915. **F**

Hunter, John Frederick, Young Men's Christian Association, Washington, D. C. (63). **E**

Hunter, John Vincent, M. E., 14 Sidney Place, Minneapolis, Minn. (60). **D**

Hunter, Rutherford H., Professor of Physics, University of Wooster, Wooster, Ohio. (63). **B**

*Hunter, Samuel John, Professor of Entomology, University of Kansas, Lawrence, Kans. (50). 1902. **F**

*Hunter, Walter David, U. S. Department of Agriculture, Washington, D. C. (50). 1905. **F**

HUNTINGTON, ARCHER MILTON, Hispanic Society of America, 156th St. near Broadway, New York, N. Y. (57).

*Huntington, Edward Vermilye, Ph. D., Assistant Professor of Mathematics, Harvard University, Cambridge, Mass. (58). 1908. **A**

*Huntington, Ellsworth, Ph. D., Department of Geography, Yale University, New Haven, Conn. (51). 1909. **E**

*Huntington, F. W., 1801 Dorchester Road, Brooklyn, N. Y. (60). **B**

Huntington, Frank, U. S. Dept. of Agriculture, Washington, D. C. (62).

*Huntington, George Sumner, M. D., Sc. D., LL. D., Professor of Anatomy, Columbia University, New York, N. Y. (52). 1906. **F K**

Huntsman, Frank C., C. E., P. O. Box 1334, Alliance, Nebr. (60). **B**

Huntting, Miss Ella, State Normal School, Upper Montclair, N. J. (64). **E**

*Hurd, Henry Mills, M. D., 1023 St. Paul St., Baltimore, Md. (58). 1909. **H K**

Hurd, Richard Melancthon, 59 Liberty St., New York, N. Y. (58). **I**

*Hurd, Prof. William Daniel, Massachusetts Agricultural College, Amherst, Mass. (60). 1911. **G**

Hurlburt, Mary F.. 155 Summit Ave., Summit, N. J. (63).

*Hurst, Julius H., M. D., P. O. Box 13, Montecito, Cal. (52). 1913. **H K**

Hurt, Henry H., P. O. Box 208, Covington, Va. (58). **C**

Hurter, Julius, Sr., 2346 South 10th St., St. Louis, Mo. (63). **D**

*Hurty, John N., M. D., 17 East 11th St., Indianapolis, Ind. (58). 1909. **K**

*Hurwitz, Wallie Abraham, Ph. D., Cornell University, Ithaca, N. Y. (63). 1913. **A**

Husik, Isaac, Ph. D., 408 South 9th St., Philadelphia, Pa. (60). **H**

*Hussakof, Louis, Ph. D., American Museum of Natural History, New York, N. Y. (56). 1911. **F**

Hussey, Harry Brigham, E. E., 309 O. C. S. Bank Building, Syracuse, N. Y. (60). **D**

*Hussey, William Joseph, Sc. D., Professor of Astronomy, University of Michigan, Ann Arbor, Mich. (58). 1909. **A**

*Huston, Henry Augustus, Room 1804, 42 Broadway, New York, N. Y. (53). 1911. **C**

Hutchings, Stanley R., M. D., 502 West High St., Springfield, Ohio. (60). **K**

Hutchings, Willard Hunter, M. D., Fine Arts Building, Detroit, Mich. (60). **K**

*Hutchins, Charles Clifford, Professor of Physics, Bowdoin College, Brunswick, Me. (58). 1910. **B**

*Hutchins, Edgar Burton, Jr., Ph. D., 174 East 1st St., Fond du Lac, Wis. (57). 1909. **C**

*Hutchinson, Cary Talcott, Ph. D., Consulting Engineer, 60 Wall St., New York, N. Y. (58). 1910. **B D**

Hutchinson, Edward S., C. E., M. E., 34 South State St., Newtown, Pa. (58). **D**

Hutchinson, John P., "Cloverdale," Georgetown, N. J. (65).

Hutchinson, Woods, M. D., Hotel Marseilles, New York, N. Y. (56). **K L**

Hutchison, Claude Burton, Assistant Professor of Agronomy, College of Agriculture, Columbia, Mo. (65). **M**

Hutchison, George S., 434 South Irving Ave., Chicago, Ill. (66). **M**

Hutchison, Miller Reese, Chief Engineer, Edison Laboratory, Orange, N. J. (65). **D**

Hutshing, Edwin E., 1013 Green Building, Seattle, Wash. (65).

Hutton, Joseph Gladden, Associate Professor of Agronomy, S. D. State College of A. and M. Arts, Brookings, S. D. (63). **E G M**

Hutton, Sarah Elizabeth, 67 West 106th St., New York, N. Y. (65). **G**

Hyams, Miss Isabel F., 26 Wales St., Dorchester, Mass. (47). **C**

Hyde, Abraham Lincoln, Associate Professor of Bridge Engineering, University of Missouri, Columbia, Mo. (54). **D**

*Hyde, B. T. Babbitt, 11 Broadway, New York, N. Y. (43). 1913. **C D H**

Hyde, Miss Edith E., 1840 Summit Place, N. W., Washington, D. C. (50). **H I**

*Hyde, Edward Pechin, Ph. D., General Electric Co., Nela Park, Cleveland, Ohio. (60). 1910. **B**

*Hyde, Edward Wyllys, care Col. Life Insurance Co., 44 Elm St., Cincinnati, Ohio. (25). 1881. **A**

Hyde, Edwin Francis, 36 West 58th St., New York, N. Y. (43). **A**

Hyde, Frederick E., M. D., 542 Fifth Ave., New York, N. Y. (43). **E K**

Hyde, Frederick E., Jr., 542 Fifth Ave., New York, N. Y. (43). **H**

Hyde, Henry St. John, 210 East 18th St., New York, N. Y. (49). **B C D E**

Hyde, Ida Henrietta, Ph. D., Professor of Physiology, University of Kansas, Lawrence, Kansas. (65). **K**

*Hyde, Jesse Earl, Associate Professor of Geology, Western Reserve University, Cleveland, Ohio. (57). 1911. **E F**

*Hyde, John, 1840 Summit Place, N. W., Washington, D. C. (47). 1898. **E I**

Hyde, Perley Charles, Department of Mathematics, Jersey City High School, Jersey City, N. J. (58). **A B C H L**

Hyde, Roscoe Raymond, Professor of Zoology and Botany, Indiana State Normal School, Terre Haute, Ind. (60). **F G**

*Hyslop, James A., Bureau of Entomology, U. S. Department of Agriculture, Washington, D. C. (60). 1914. **F**

*Hyslop, James Hervey, Ph. D., LL. D., 519 West 149th St., New York, N. Y. (56). 1911. **I**

Hyslop, John, 4 Riverview Terrace, New York, N. Y. (57).

*Iddings, Joseph Paxson, Sc. D., Brinklow, Md. (31). 1884. **E**

Iknayan, Nicholas C., M. D., 613 6th St., Charleston, Ill. (60). **K**

*Iles, George, Park Avenue Hotel, New York, N. Y. (31). 1898. **I**

Illick, John Theron, Department of Zoology, West Virginia University, Morgantown, W. Va. (66). **F**

Illingworth, James Franklin, College of Hawaii, Honolulu, Hawaii. (65). **F**

Illmer, Louis, Jr., 117 Windsor St., Reading, Pa. (64).

Illoway, Henry, M. D., 1113 Madison Ave., New York, N. Y. (57). **K L**

Imlay, Lorin Everett, E. E., Superintendent, Niagara Falls Power Company, Niagara Falls, N. Y. (60). **D**

Ingall, Elfric Drew, M. E., Geological Survey of Canada, Ottawa, Canada. (60). **E**

Ingalls, Mrs. Carrie Crane, Peralta Apartments, Oakland, Cal. (66).

Ingalsbe, Frank Richmond, Forestry Service, Missoula, Mont. (62). **E M**

Ingalsbe, Hon. Grenville Mellen, First Vice-President, N. Y. State Historical Association, Hudson Falls, N. Y. (62).

Ingersoll, John M., M. D., 1021 Prospect Ave., Cleveland, Ohio. (60). **K**

*Ingersoll, Leonard Rose, Ph. D., Associate Professor of Physics, University of Wisconsin, Madison, Wis. (58). 1910. **B**

Ingham, Edward Alexander, Mass. Institute of Technology, Boston, Mass. (65). **F**

*Inglis, Alexander J., Ph. D., Assistant Professor of Education, Harvard University, Cambridge, Mass. (63). 1913. **L**

Ingraham, George Landon, LL. D., 80 Irving Place, New York, N. Y. (57).

*Ingram, Edward Lovering, C. E., Professor of Railroad Engineering and Geodesy, University of Pennsylvania, Philadelphia, Pa. (51). 1915. **D**

Ingram, George M., State and Felder Sts., Nashville, Tenn. (65). **D**

Irvin, Oscar William, Professor of Physics, Toledo University, Toledo, Ohio. (64). **B**

*Irving, John Duer, Ph. D., Professor of Economic Geology, Yale University, New Haven, Conn. (51). 1903. **D E**

Irving, Mrs. Rosina J., 29th St., Beechhurst, White Stone Landing, New York, N. Y. (57).

Irwin, Frederick C., Central High School, Detroit, Mich. (60). **I**

Irwin, Ralph Edward, State Department of Health, Harrisburg, Pa. (60). **D F**

Isaacs, Irwin M., 6 Bluff, Yokohama, Japan. (65).

Isaacs, Raphael, 3552 Bogart Ave., Cincinnati, Ohio. (63). **F K**

*Isaacs, Schachne, University of Cincinnati, Cincinnati, Ohio. (65). 1915. **H**

Isely, Frederick B., Professor of Biology, Central College, Fayette, Mo. (61). **F**

*Isham, George Snow, M. D., 1340 North State St., Chicago, Ill. (54). 1906. **A K**

Israelsen, O. W., University Farm, Davis, Cal. (66).

*Ives, Frederic Eugene, 1205 Race St., Philadelphia, Pa. (44). 1898. **B**

*Ives, Herbert Eugene, Ph. D., 3101 Passyunk Ave., Philadelphia, Pa. (62). 1915. **B**

*Ives, James Edmund, Ph. D., Clark University, Worcester, Mass. (58). 1910. **B**

Ives, Judson Dunbar, 5556 Drexel Ave., Hyde Park Station, Chicago, Ill. (60). **F**

*Jablonowski, Joseph, Director, Entomological Station of the State, Budapest, Hungary. (58). 1914. **F**

Jaches, Leopold, M. D., Loomis Laboratory, Cornell University Medical College, New York, N. Y. (57). **B C K**

*Jack, John George, Assistant Professor of Dendrology, Harvard University, Cambridge, Mass. (31). 1890. **F G**

*Jackson, Abraham Wendell, 9 Woodcrest Ave., White Plains, N. Y. (54). 1906. **E L**

Jackson, C. Floyd, Professor of Zoology, New Hampshire College, Durham, N. H. (58). **F**

*Jackson, Clarence Martin, M. D., Professor of Anatomy, University of Minnesota, Minneapolis, Minn. (58). 1911. **F K**

*Jackson, Daniel Dana, Professor of Sanitary Engineering, Columbia University, N. Y. (60). 1911. **C D**

*Jackson, Dennis Emerson, Ph. D., Associate in Pharmacology, Washington University Medical School, St. Louis, Mo. (62). 1914. **K**

*Jackson, Dugald Caleb, C. E., Professor of Electrical Engineering, Massachusetts Institute of Technology, Boston, Mass. (60). 1911. **D**

*Jackson, Hartley H. T., Biological Survey, U. S. Department of Agriculture, Washington, D. C. (61). 1915. **F L**

*Jackson, Herbert Spencer, Professor of Botany and Plant Pathology, Oregon Experiment Station, Corvallis, Ore. (60). 1913. **G**

*Jackson, Holmes Condict, Ph. D., Professor of Physiology, New York University, New York, N. Y. (57). 1908. **K**

*Jackson, John Price, E. E., Dean, School of Engineering, Pennsylvania State College, State College, Pa. (61). 1912. **D**

Jackson, Reginald H., M. D., 415 No. Carrol St., Madison, Wis. (64). **K**

*Jackson, Robert Tracy, Sc. D., 195 Bay State Road, Boston, Mass. (37). 1890. **F**

Jackson, Victor Hugo, M. D., 40 East 41st St., New York, N. Y. (51). **K**

*Jacobi, Abraham, M. D., LL. D., 19 East 47th St., New York, N. Y. (57). 1911. **K L**

Jacobs, E. E., Professor of Natural Sciences, Ashland College, Ashland, Ohio. (64).

*Jacobs, Henry Barton, M. D., 11 Mt. Vernon Place, Baltimore, Md. (50). 1909. **F G K L**

*Jacobs, J. Warren, 404 South Washington St., Waynesburg, Pa. (54). 1906. **F**

*Jacobs, Merkel Henry, Ph. D., Assistant Professor of Zoology, University of Pennsylvania, Philadelphia, Pa. (62). 1913. **F**

Jacobs, Michael William, 222 Market St., Harrisburg, Pa. (50). **I**

Jacobs, Michael William, Jr., Commonwealth Trust Building, Harrisburg, Pa. (65). **A I**

*Jacobson, Carl Alfred, Ph. D., Professor of Chemistry, University of Nevada, Reno, Nev. (65). 1915. **C**

*Jacobus, David Schenck, M. E., 85 Liberty St., New York, N. Y. (36). 1889. **A B D**

Jacobus, R. Fulton, M. E., Ridgefield, N. J. (60). **D**

*Jacoby, Harold, Ph. D., Professor of Astronomy, Columbia University, New York, N. Y. (38). 1891. **A**

*Jacoby, Henry Sylvester, Professor of Bridge Engineering, Cornell University, Ithaca, N. Y. (36). 1892. **D L**

*Jaeger, Dr. F. M., University of Groningen, Groningen, Holland. (64). 1915. **C**

*Jaffa, Meyer Edward, Professor of Nutrition, University of California, Berkeley, Cal. (65). 1915. **C**

*Jagger, Ivan Claude, University of Rochester, Rochester, N. Y. (63). 1915. **G**

James, Charles C., 144 St. George St., Toronto, Canada. (46). **I**

James, John Nelson, Indiana State Normal School, Indiana, Pa. (58). **C**

*James, Joseph Hidy, Ph. D., Professor of Chemical Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. (58). 1911. **C D L**

James, Mrs. Sarah Stubbs, 1504 R St., Washington, D. C. (49). **H I**

*James, Walter Belknap, M. D., LL. D., 17 West 54th St., New York, N. Y. (54). 1906. **K**

Jameson, Arthur H., E. M., Whortleberry Road, Branford, Conn. (60). **D**

*Jamieson, George Samuel, Ph. D., 96 Linden St., New Haven, Conn. (60). 1911. **C**

Jamieson, Thomas H., M. D., Wellington, Kans. (60). **K**

Janeway, Henry H., M. D., Riverdale-on-Hudson, New York, N. Y. (60). **K**

*Janeway, Theodore Caldwell, M. D., Professor of Medicine, Johns Hopkins University, Baltimore, Md. 1914. **K**

*Jaques, Capt. William Henry, Vice-President and General Manager, United Telephone Co., Board of Trade Building, Boston, Mass. (47). 1899. **D**

Jardine, William M., Professor of Agronomy, Kansas State Agricultural College, Manhattan, Kansas. (63). **G M**

Jarman, Joseph L., President and Professor of Chemistry, State Female Normal School, Farmville, Va. (51). **C**

Jarvis, C. F., First National Bank Building, Oakland, Cal. (66).

*Jastrow, Joseph, Ph. D., Professor of Psychology, University of Wisconsin, Madison, Wis. (35). 1887. **G H**

Jefferson, John Percival, Santa Barbara, Cal. (51). **D E H**

*Jefferson, Mark, Professor of Geography, Michigan State Normal College, Ypsilanti, Mich. (52). 1906. **E**

Jeffrey, Alexander B., M. D., 706 Kansas Ave., Topeka, Kans. (60). **K**

*Jeffrey, Edward Charles, Ph. D., Professor of Plant Morphology, Harvard University, Cambridge, Mass. (52). 1905. **G**

*Jeffries, B. Joy, M. D., 15 Chestnut St., Boston, Mass. (29). 1881. **B F K**

Jeffs, R. E., Professor of Biology, Friends University, Wichita, Kans. (61). **F G**

Jehle, R. A., Estacion Experimental Agronomico, Santiago de las Vegas, Cuba. (62). **G**

Jelly, Arthur Carlton, M. D., 10 Arlington St., Boston, Mass. (60). **H K L**

*Jenkins, Edward Hopkins, Ph. D., Director, Connecticut Agricultural Experiment Station, New Haven, Conn. (33). 1885. **C M**

JENKINS, GEORGE C., Abell Building, Baltimore, Md. (60).

*Jenkins, Lawrence Waters, Curator of Ethnology, Peabody Museum, Salem, Mass. (57). 1915. **H**

Jenkins, Olaf Pitt, State Geological Survey, Nashville, Tenn. (65). **E**

*Jenkins, Oliver Peebles, Ph. D., Professor of Physiology, Leland Stanford Junior University, Stanford University, Cal. (52). 1905. **F K**

*Jenks, Albert Ernest, Ph. D., Professor of Anthropology, University of Minnesota, Minneapolis, Minn. (50). 1902. **H**

Jenks, William H., M. E., Brookville, Pa. (38). **D**

*Jenney, Walter Proctor, Ph. D., 1727 P St., N. W., Washington, D. C. (50). 1903. **E**

*Jennings, Allan H., Bureau of Entomology, U. S. Department of Agriculture, Washington, D. C. (60). 1914. **F**

*Jennings, Edward Payson, E. M., P. O. Box 841, Salt Lake City, Utah. (60). 1911. **D**

Jennings, Fred Huntington, 1146 Boyd St., Watertown, N. Y. (57). **C**

Jennings, Gainor, M. D., West Milton, Ohio. (51). **K**

*Jennings, Hennen, 2221 Massachusetts Ave., Washington, D. C. (63). 1915. **D E**

*Jennings, Herbert Spencer, Ph. D., LL. D., Henry Walters Professor of Zoology, and Director, Biological Laboratory, Johns Hopkins University, Baltimore, Md. (54). 1906. **F**

Jennings, Rev. James J., 333 Springfield Ave., Chicago, Ill. (60). **I L**

Jennings, John G., 2346 West 14th St., Cleveland, Ohio. (63).

*Jennings, Otto Emery, Ph. D., Carnegie Museum, Pittsburgh, Pa. (53) 1909. **G**

*Jennings, Walter Louis, Ph. D., Professor of Organic Chemistry, Worcester Polytechnic Institute, Worcester, Mass. (45). 1898. **C**

Jennison, Harry M., Department of Botany, Montana State College of A. and M. Arts, Bozeman, Mont. (62). **G**

Jensen, Charles A., Bennington, Idaho. (54). **G**

Jensen, Christian Nephi, Ph. D., President, Brigham Young College, Logan, Utah. (64). **G**

*Jensen, Jens, 185 Steinway Hall Building, Chicago, Ill. (58). 1911. **E F G**

Jensen, Jesse P., Superintendent of Schools, Eagle Bend, Minn. (62). **F**

Jensen, Miss Louise, 3401 Chicago Ave., Minneapolis, Minn. (63). **G**

Jepson, William, M. D., 3 United Bank Building, Sioux City, Iowa. (64). **K**

*Jepson, Willis Linn, Ph. D., Associate Professor of Botany, University of California, Berkeley, Cal. (65). 1915. **G**

Jernberg, Lawrence W., 1248 East 111th St., Cleveland, Ohio. (63).

*Jessen, Karl Detlev, Ph. D., Professor of German Literature, Bryn Mawr College, Bryn Mawr, Pa. (55). 1915. **H**

Jewell, Susan Grace, Professor of Biology, Tabor College, Tabor, Iowa. (58). **F G**

Jewell, William M., Park Ridge, Ill. (58).

*Jewett, Frank Fanning, Professor of Chemistry and Mineralogy, Oberlin College, Oberlin, Ohio. (47). 1899. **C D E**

Jewett, H. S., M. D., 15 West Monument Ave., Dayton, Ohio. (63). **K**

Jewett, William Cornell, C. E., The Harvey, Avondale, Cincinnati, Ohio. (52). **D**

*Jobling, James Wesley, M. D., Professor of Pathology, Vanderbilt Medical School, Nashville, Tenn. (62). 1915. **K**

Jobson, Arthur, R. D. 3, Bucklin, Mo. (65). **D**

*Jodidi, S. L., Ph. D., U. S. Department of Agriculture, Washington, D. C. (62). 1914. **C**

*Joerg, Wolfgang L. G., 20 Sherman Ave., Yonkers, N. Y. (63). 1913. **E**

*Joffe, S. A., Mutual Life Insurance Co. of New York, 55 Cedar St., New York, N. Y. (54). 1906. **A**

*Johannsen, Albert, Ph. D., Associate Professor of Petrology, University of Chicago, Chicago, Ill. (54). 1909. **E**

*Johannsen, Oskar Augustus, Ph. D., Assistant Professor of Biology, Cornell University, Ithaca, N. Y. (54). 1913. **F**

Johansen, Erneste, M. D., Whitney Building, 133 Geary St., San Francisco, Cal. (60). **K**

*Johns, Carl O., Ph. D., 3022 Macomb St., Washington, D. C. (50). 1911. **C**

*Johnson, Aaron G., College of Agriculture, University of Wisconsin, Madison, Wis. (60). 1913. **G M**

Johnson, Albert Lincoln, C. E., care Corrugated Bar Co., Mutual Life Building, Buffalo, N. Y. (51). **D**

Johnson, Charles Eugene, Department of Zoology, University of Minnesota, Minneapolis, Minn. (58). **F**

*Johnson, Charles Morris, 731 Orchard St., Avalon, Pa. (60). 1911. **C**

*Johnson, Charles Willison, Curator, Boston Society of Natural History, Boston, Mass. (51). 1908. **F**

*Johnson, Douglas Wilson, Ph. D., Associate Professor of Geology, Columbia University, New York, N. Y. (54). 1909. **E**

*Johnson, Duncan Starr, Ph. D., Professor of Botany, Johns Hopkins University, Baltimore, Md. (54). 1906. **G**

*Johnson, Edward Carl, Kansas State Agricultural College, Manhattan, Kans. (62). 1913. **G**

Johnson, Frank Seward, M. D., 2521 Prairie Ave., Chicago, Ill. (51). **B K**

*Johnson, Herbert Parlin, Ph. D., Cedaredge, Colo. (54). 1906. **K**

Johnson, Homer Hosea, 1009 American Trust Bldg., Cleveland, Ohio. (63).

Johnson, James H., M. D., 920 West 7th St., Los Angeles, Cal. (60). **K**

Johnson, James T., M. D., 31 Washington St., Cumberland, Md. (60). **K**

Johnson, Jesse F., 756 Sherbrooke St.. West, Montreal, Canada. (58). **C**
Johnson, John C., 2001 Allston Way, Berkeley, Cal. (66).
Johnson, Montgomery Hunt, E. E., 41 Plant St., Utica, N. Y. (60). **D**
Johnson, Myrtle E., Ph. D., 201 North Euclid Ave., Pasadena, Cal. (63). **F**
Johnson, Orville M., Morgantown, W. Va. (64).
Johnson, Roswell Hill, Professor of Geology, University of Pittsburgh, Pittsburgh, Pa. (60). **E F H**
Johnson, S. Arthur, Associate Professor of Zoology, State Agricultural College, Fort Collins, Colo. (58). **F**
Johnson, Mrs. Seth Albert, Harriman, N. Y. (65).
*Johnson, Thomas Carskadon, Director, Virginia Truck Experiment Station, Norfolk, Va. (51). 1911. **G**
Johnson, William D., M. D., Batavia, N. Y. (58). **A K**
Johnson, William P., 8 North 6th St., Minneapolis, Minn. (62). **D**
Johnson, William Smythe, Ph. D., Helena, Okla. (49). **H L**
*Johnston, Charles Hughes, Ph. D., Professor of Secondary Education, University of Illinois, Urbana, Ill. (58). 1911. **H**
Johnston, Earle S., Laboratory of Plant Physiology, Johns Hopkins University, Baltimore, Md. (63). **B F G**
Johnston, Edward C., U. S. S. Albatross, Pacific Station, San Francisco, Cal. (65).
Johnston, Frederick Atkins, The S. S. White Dental Manufacturing Company, Prince Bay, N. Y. (60). **C D**
Johnston, George Ben, M. D., LL. D., 407 East Grace St., Richmond, Va. (51). **K**
*Johnston, John, Sc. D., Geophysical Laboratory, Washington, D. C. (64). 1914. **C**
*Johnston, John Black, Ph. D., Professor of Anatomy, University of Minnesota, Minneapolis, Minn. (52). 1904. **F L**
*Johnston, John R., Professor of Pathology, Porto Rico S. P. Experiment Station, Rio Piedras, Porto Rico. (62). 1915. **G**
Johnston, Thomas Jones, 149 Broadway, New York, N. Y. (50). **A B D**
Johnston, William A., Prince Bay, N. Y. (50). **B C D**
Johnstone, Augustus Ralph, M. D., 4147 Lake Ave., Chicago, Ill. (60). **K**
*Johonnott, Edwin Sheldon, Jr., Ph. D., Associate Professor of Physics, Rose Polytechnic Institute, Terre Haute, Ind. (50). 1904. **B**
Jolivette, Hally D. M., Ph. D., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (65). **G**
Jonas, Anna Isabel, Ph. D., 91 West Commerce St., Bridgeton, N. J. (65). **E**
Jones, A. Halden, M. D., 1186 West 27th St., Los Angeles, Cal. (61). **K**
*Jones, Adam Leroy, Ph. D., Columbia University, New York, N. Y. (52). 1905. **H L**
*Jones, Arthur Taber, Ph. D., Assistant Professor of Physics, Smith College, Northampton, Mass. (53). 1911. **B**
*Jones, Charles Hampson, M. D., 2529 St. Paul St., Baltimore, Md. (58). 1909. **K**

Jones, Charles Howland, 83 Brooks Ave., Burlington, Vt. (58). **C D**
Jones, Charles Landon, 63 Wall St., New York, N. Y. (57).
Jones, Charles Richardson, 317 Edward St., Fort Collins, Colo. (55). **F**
*Jones, Clement Ross, Professor of Mechanical Engineering, West Virginia University, Morgantown, W. Va. (50). 1912. **D**
Jones, Donald F., Bussey Institution, Forest Hills, Boston, Mass. (66). **G**
*Jones, Elmer Ellsworth, Ph. D., 1115 Church St., Evanston, Ill. (62). 1915. **L**
Jones, Emmett Milton, Woman's Temple, Chicago, Ill. (63).
Jones, Frank Morton, 802 Washington St., Wilmington, Del. (63).
Jones, Franklin T., 9511 Sagamore Ave., N. E., Cleveland, Ohio. (60). **C**
*Jones, Frederick Scheetz, Professor of Physics, Yale College, New Haven, Conn. (45). 1901. **B**
Jones, Hilton Ira, Head, Department of Chemistry, Dakota Wesleyan University, Mitchell, S. D. (63). **C**
Jones, Henry N., 730 Westcott St., Syracuse, N. Y. (64).
Jones, Howard E. A., 731 Clinton Place, Evanston, Ill. (60). **L**
*Jones, J. Claude, Assistant Professor of Mineralogy, University of Nevada, Reno, Nev. (61). 1914. **E**
Jones, John McKinley, Texas Agricultural Experiment Station, College Station, Texas. (65). **F**
*Jones, Lauder William, Ph. D., Professor of Chemistry, University of Cincinnati, Cincinnati, Ohio. (60). 1910. **C**
*Jones, Lewis Ralph, Sc. D., Ph. D., Professor of Plant Pathology, University of Wisconsin, Madison, Wis. (41). 1894. **G**
*Jones, Louis Cleveland, Ph. D., care Solvay Process Co., Syracuse, N. Y. (58). 1911. **C E**
*Jones, Lynds, Ph. D., Associate Professor of Animal Ecology, Oberlin College, Oberlin, Ohio. (50). 1905. **F**
*Jones, Marcus Eugene, 270 West South Temple St., Salt Lake City, Utah. (40). 1893. **E G**
Jones, Noble Wiley, Stevens Building, Portland, Oreg. (66).
Jones, Paul R., 350 California St., San Francisco, Cal. (58). **F**
Jones, Richard U., Macalester College, St. Paul, Minn. (62).
Jones, Thomas Henry, State Experiment Station, Baton Rouge, La. (64). **F**
Jones, Walter C., M. D., 2309 Sherman Ave., Evanston, Ill. (60). **K**
Jones, Walter P., Third Ave., Rome, Ga. (63). **F G**
Jones, William Henry, C. E., 315 Vine St., Leavenworth, Kans. (60). **D**
*Jones, William James, Jr., State Chemist, Agricultural Experiment Station, La Fayette, Ind. (58). 1911. **C**
*Jordan, David Starr, M. D., Ph. D., LL. D., Chancellor, Leland Stanford Junior University, Stanford University, Cal. (31). 1883. **E F G I K L**

*Jordan, Edwin Oakes, Ph. D., Professor of Bacteriology, University of Chicago, Chicago, Ill. (50). 1901. **K**

*Jordan, Harvey Ernest, Ph. D., Professor of Histology and Embryology, University of Virginia, Charlottesville, Va. (57). 1909. **F K**

Jordan, James Douglas, M. D., Madisonville, Tex. (60). **K**

*Jordan, Lyman Granville, Ph. D., Professor of Chemistry, Bates College, Lewiston, Me. (60). 1911. **C**

Jordan, R. H., Principal, Western High School, Minneapolis, Minn. (60). **A**

*Jordan, Whitman Howard, Sc. D., LL. D., Director, New York Agricultural Experiment Station, Geneva, N. Y. (45). 1902. **I M**

Joseph, Emil, 1007 Society for Savings Building, Cleveland, Ohio. (63).

Joseph, Isaac, 1827 East 82d St., Cleveland, Ohio. (63).

Joseph, Walter E., Ph. D., 550 Agricultural Building, Urbana, Ill. (65) **F**

*Joslin, Elliott Proctor, M. D., 81 Bay State Road, Boston, Mass. (60). 1911. **K**

Joyce, Clarence M., 50 East 41st St., New York, N. Y. (60). **C**

Juat, Francis, M. D., Raeford, N. C. (50). **F K**

*Juday, Chancey, River Pines, Stevens Point, Madison, Wis. (58). 1913. **F**

Judd, Albert Floyd, Professor of Chemistry, University of Pittsburgh Dental School, Pittsburgh, Pa. (63). **C**

*Judd, Charles Hubbard, Ph. D., LL. D., Professor of Psychology, University of Chicago, Chicago, Ill. (49). 1901. **H I L**

Judd, Horace, Associate Professor of Experimental Engineering, Ohio State University, Columbus, Ohio. (56). **D**

Judson, Champion Hiram, M. D., Dobbs Ferry, N. Y. (57). **K**

*Judson, Harry Pratt, LL. D., President, University of Chicago, Chicago, Ill. (58). 1910. **L**

Judson, Miss S. E., 137 Wall St., New Haven, Conn. (63).

Juettner, Otto, M. D., 628 Elm St., Cincinnati, Ohio. (57). **K**

*Julien, Alexis Anastay, Ph. D., South Harwich, Mass. (24). 1875. **C E**

Jungblut, Herman Carl, M. D., Tripoli, Iowa. (62). **K**

Jürgensen, Jess Christian, M. E., United Piece Dye Works, Lodi, N. J. (60). **D**

Just, Ernest E., 412 T St., N. W., Washington, D. C. (66). **F**

Justeson, Osmon, Hyrum, Utah. (64). **F**

Kaadt, Peter S., M. D., Scipio, Okla. (54). **K**

Kabell, Dr. C., 209 South State St., Chicago, Ill. (58). **C**

Kahl, Paul Hugo Isidor, Carnegie Museum, Pittsburgh, Pa. (50). **F**

*Kahlenberg, Louis, Ph. D., Professor of Physical Chemistry, University of Wisconsin, Madison, Wis. (46). 1898. **B C**

Kahn, Julius, 100 West 80th St., New York, N. Y. (50). **C**

Kahn, Otto Hermann, P. O. Box 1193, New York, N. Y. (57).

Kaliski, Maximilian S., Ph. D., care Maxim Chemical Co., 17 Battery Place, New York, N. Y. (58). **C**

Kammerer, Alfred Lewis, 738 Central Ave., Clayton, Mo. (63).

*Kammerer, Frederic, M. D., 51 East 66th St., New York, N. Y. (60). 1911. **K**

Kammerer, Jacob Andrae, 87 Jameson Ave., Toronto, Canada. (50). **C D**

*Kane, Elisha Kent, Kushequa, Pa. (54). 1906. **D**

Kane, R. Emmet, M. D., 312 Humboldt Building, St. Louis, Mo. (58). **K**

Kane, Thomas Francis, Castleton Hotel Park, New Brighton, N. Y. (58). **A**

Kantor, William L., M. D., 386 East 143d St., New York, N. Y. (60). **K**

Kaplan, Harry, M. E., 1451 Wilkins Ave., Bronx, New York, N. Y. (57). **D I**

*Karapetoff, Vladimir, E. E., Professor of Electrical Engineering, Cornell University, Ithaca, N. Y. (60). 1911. **D**

Karnay, W. W., 33 Appraisers Building, San Francisco, Cal. (65).

Karrer, Enoch. 3101 Passyunk Ave., Philadelphia, Pa. (63). **B**

*Karsner, Howard Thomas, M. D., Professor of Pathology, Western Reserve University, Cleveland, Ohio. (64). 1915. **K**

Karsten, Adrian C., M. D. Horicon, Wis. (58). **K**

*Kasner, Edward, Ph. D., Professor of Mathematics, Barnard College, Columbia University, New York, N. Y. (52). 1904. **A**

Kast, Ludwig, M. D., 771 Madison Ave., New York, N. Y. (62). **K**

Katsuki, I., M. D., Honolulu, Hawaii. (60). **K**

*Katz, Frank J., U. S. Geological Survey, Washington, D. C. (60). 1915. **E**

Kaufman, Mrs. Una Libby, 135 Central Park, West, New York, N. Y. (62). **H L**

Kaufmann, Franklin John, M. D., 311 West Genesee St., Syracuse, N. Y. (60). **K**

Kaufmann, Harry J., Professor of Physics and Biology, High School for Boys, Reading, Pa. (65). **B F**

Kaufmann, Jacob, M. D., 52 East 58th St., New York, N. Y. (60). **K**

Kautz-Eulenberg, Miss P. R., 12 East 30th St., New York, N. Y. (61).

Kavanagh, Thomas J., Superintendent, American Sugar Refining Co., Jersey City, N. J. (56). **C**

Kawin, Charles C., 417 So. Dearborn St., Chicago, Ill. (58). **C**

*Kay, George Frederick, Professor of Economic Geology and Petrology, State University of Iowa, Iowa City, Iowa. (57). 1910. **E**

*Kearfott, William Dunham, Montclair, N. J. (54). 1915. **F**

*Kearney, Thomas Henry, U. S. Department of Agriculture, Washington, D. C. (47). 1902. **G**

Keating, Peter McCall, M. D., "Sunnyside," Wawa, Pa. (65). **K**

*Kebler, Lyman Frederic, M. D., U. S. Department of Agriculture, Washington, D. C. (60). 1911. **C**

Keckley, Clyde U., P. O. Box 3, Wayne, Nebr. (63).

Keefer, William E., N. Y. State College of Agriculture, Ithaca, N. Y. (65). **G**

*Keen, William Williams, M. D., Ph. D., LL. D., 1729 Chestnut St., Philadelphia, Pa. (60). 1910. **K**

Keenan, George L., Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (65). **C G**

*Keep, William John, E. M., 753 Jefferson Ave., Detroit, Mich. (37). 1897. **D**

Keffer, Frederic, M. E., Greenwood, B. C., Canada. (60). **D**

Keilholtz, Pierre Otis, Consulting Engineer, Continental Trust Building, Baltimore, Md. (50). **D**

Keim, Edward Tudor, E. E., Superintendent, American District Tel. Co., Denver, Colo. (50). **D E F**

*Keith, Arthur, U. S. Geological Survey, Washington, D. C. (60). 1910. **E**

Keith, John Meiggs, San Jose, Costa Rica, C. A. (54). **G I**

*Keith, Miss Marcia A., 116 Nassau St., New York, N. Y. (46). 1906. **A B D**

*Keith, Simeon Curtis, Jr., 72 South Market St., Boston, Mass. (60). 1913. **F**

Keitt, George Wannamaker, 803 State St., Madison, Wis. (62). **G**

*Keitt, Thomas Ellison, Professor of Chemistry, South Carolina Agricultural Experiment Station, Clemson College, S. C. (60). 1914. **C**

*Keller, Edward, Ph. D., P. O. Box 363, Perth Amboy, N. J. (50). 1904. **C**

Keller, Frederick C., M. D., 255 West 90th St., New York, N. Y. (60). **K**

Keller, George J., 191 Avon Ave., Newark, N. J. (58). **F**

Keller, Homer L., 623 West 36th St., Los Angeles, Cal. (65).

*Kellerman, Karl Frederic, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (58). 1909. **G**

Kellerman, Miss Maude, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (63). **G**

Kelley, Frank J., College of Agriculture, University of Wisconsin, Madison, Wis. (61). **F**

*Kelley, George Leslie, 40 East Tulpehocken St., Philadelphia, Pa. (58). 1911. **C**

Kelley, Mrs. Joanna R., Devil's Lake, N. D. (65).

Kelley, Morriss De Witt, M. D., R. F. D. 1, La Grange, Ky. (60). **K**

*Kelley, Walter Pearson, Ph. D., Professor of Agricultural Chemistry, Citrus Experiment Station, Riverside, Cal. (58). 1911. **C F M**

*Kellicott, William Erskine, Ph. D., Professor of Biology, Goucher College Baltimore, Md. (57). 1909. **F**

Kellogg, Edward Leland, M. D., 48 West 51st St., New York, N. Y. (60). **K**

Kellogg, John Harvey, M. D., Superintendent, Battle Creek Sanitarium, Battle Creek, Mich. (24). **C H I K**

Kellogg, R. S., 925 Lumber Exchange, Chicago, Ill. (66). **M**

*Kellogg, Vernon Lyman, Professor of Entomology, Leland Stanford Junior University, Stanford University, Cal. (50). 1901. **F H**

*Kelly, Edward G., U. S. Entomological Laboratory, Wellington, Kans. (55). 1913. **F**

Kelly, Edward H., M. D., Ironwood, Mich. (60). **K**

Kelly, F. M., M. D., Needles, Cal. (60). **K**

*Kelly, Harry McCormick, LL. D., Professor of Biology, Cornell College, Mt. Vernon, Iowa. (60). 1913. **F**

Kelly, Henry A., 33 Central Park, West, New York, N. Y. (60). **F**

*Kelly, Howard Atwood, M. D., LL. D., 1418 Eutaw Place, Baltimore, Md. (60). 1910. **K**

Kelly, John Forrest, Ph. D., E. E., 284 West Housatonic St., Pittsfield, Mass. (50). **D**

*Kelly, William, E. M., General Manager, Penn Iron Mining Co., Vulcan, Mich. (50). 1915. **D E**

Kemble, Rev. Duston, 1426 Winchester Ave., Lakewood, Ohio. (63).

*Kemp, George Theophilus, M. D., Ph. D., 8 West 25th St., Baltimore, Md. (52). 1906. **K**

*Kemp, James Furman, Sc. D., Professor of Geology, Columbia University, New York, N. Y. (36). 1888. **E**

Kempf, E. J., Government Hospital for the Insane, Washington, D. C. (66).

Kempster, Harry L., Assistant Professor of Poultry Husbandry, College of Agriculture, Columbia, Mo. (64). **G**

Kempton, Charles Walter, E. M., 42 Broadway, New York, N. Y. (54). **E**

Kendall, Hugh F., E. M., General Manager, N. Y. State Steel Co., Virginia, Minn. (50). **D E**

*Kendall, William Converse, M. D., U. S. Bureau of Fisheries, Washington, D. C. (52). 1906. **F K L**

*Kendrick, Arthur, 45 Hunnewell Ave., Newton, Mass. (45). 1897. **B**

*Kenerson, William Herbert, M. E., Professor of Mechanical Engineering, Brown University, Providence, R. I. (60). 1915. **D**

Kennard, Earle H., Ph. D., Physical Laboratory, University of Minnesota, Minneapolis, Minn. (65). **B**

Kennedy, Clarence H. 549 Cowper St., Palo Alto, Cal. (63).

Kennedy, George Golding, M. D., Readville, Mass. (40). **E G K**

KENNEDY, HARRIS, M. D., 286 Warren St., Roxbury, Mass. (40). **E F K**

Kennedy, Jeremiah Joseph, C. E., 52 Broadway, New York, N. Y. (60). **D**

Kennedy, Willard J., Professor of Animal Husbandry, Iowa State College, Ames, Iowa. (61).

*Kennelly, Arthur Edwin, Sc. D., Director, Research Division, Department of Electrical Engineering, Harvard University, Cambridge, Mass. (50). 1901. **A B C**

Kenney, Miss C. Belle, Quincy Mansion School, Wollaston, Mass. (58). **A B C E L**

Kenson, Charles, 160 Fifth Avenue, New York, N. Y. (65).
Kent, Grace Helen, Ph. D., Sterling, Mass. (63). **H**
Kent, James Martin, M. E., Department of Steam and Electricity, Manual Training High School, Kansas City, Mo. (50). **B D L**
*Kent, Norton Adams, Ph. D., Professor of Physics, Boston University, Boston, Mass. (50). 1906. **A B**
*Kent, William, Sc. D., 64 Orange Road, Montclair, N. J. (26). 1881. **D L**
Kenyon, William Houston, 61 Broadway, New York, N. Y. (57). **B I L**
*Kepner, William Allison, Ph. D., Professor of Biology, University of Virginia, Charlottesville, Va. (63). 1915. **F**
*Keppel, Frederick Paul, Secretary, Columbia University, New York, N. Y. (51). 1915. **L**
*Keppel, Herbert G., Ph. D., Professor of Mathematics, University of Florida, Gainesville, Fla. (60). 1911. **A**
*Kern, Frank Dunn, Ph. D., Professor of Botany, Pennsylvania State College, State College, Pa. (54). 1909. **G**
Kern, John H., M. D., 1317 Madison St., St. Louis, Mo. (53). **K**
*Kerr, Abram Tucker, M. D., Professor of Anatomy, Cornell University, Ithaca, N. Y. (52). 1906. **F K**
Kerr, Charles Henry, Director, Research Laboratory, Pittsburgh, Pa. (58). **C E**
Kerr, Henry, 1652 N St., Fresno, California. (61). **L**
Kerr, Miss Josephine E., North Market St., Urbana, Ill. (61).
*Kerr, William Jasper, Sc. D., President, Oregon State Agricultural College, Corvallis, Oregon. (52). 1906. **A**
*Kershner, Jefferson E., Ph. D., 445 West Chestnut St., Lancaster, Pa. (29). 1883. **C E**
Kesler, John Louis, Professor of Biology, Baylor University, Waco, Texas. (51). **F G K**
*Kester, Frederick Edward, Ph. D., Professor of Physics, University of Kansas, Lawrence, Kan. (48). 1906. **B**
Ketcham, Valentine Odell, C. E., Gurley Road, Shippan Point, Stamford, Conn. (65). **D**
*Ketchum, Milo Smith, C. E., Dean, College of Engineering and Professor of Civil Engineering, University of Colorado, Boulder, Colo. (58). 1911. **A D L**
Kew, W. L. W., 2425 Le Conte Ave., Berkeley, Cal. (66).
*Key, Mrs. Wilhelmine E., Ph. D., State Training School, Polk, Pa. (62). 1913. **F**
*Keyes, Charles Rollin, Ph. D., E. M., 944 Fifth Ave., Des Moines, Iowa. (58). 1910. **E**
*Keyser, Cassius Jackson, Ph. D., Head, Department of Mathematics, Columbia University, New York, N. Y. (50). 1901. **A**
Keyser, R. Brent, Keyser Building, Baltimore, Md. (60).
Keyte, I. Allen, Salida, Colo. (60). **A C**
Khuon, Edwin, M. D., 1927 Central Ave., Cincinnati, Ohio. (60). **K**

*Kidder, Albert Franklin, Professor of Agronomy, A. and M. College, Louisiana State University, Baton Rouge, La. (58). 1911. **E G**

KIDDER, NATHANIEL T., Milton, Mass. (60).

Kiefer, Francis, U. S. Forest Service, Harrison, Ark. (63). **G M**

Kier, Samuel Martin, E. E., Oliver Building, Pittsburgh, Pa. (60). **D**

Kilby, Clinton Maury, Ph. D., College Park, Va. (63). **A B**

Kildee, H. H., Associate Professor of Animal Husbandry, Iowa State College, Ames, Iowa. (62). **M**

*Kilgore, Benjamin Wesley, State Chemist, North Carolina Department of Agriculture, Raleigh, N. C. (52). 1906. **C**

*Kimball, Arthur Lalanne, Ph. D., Professor of Physics, Amherst College, Amherst, Mass. (50). 1901. **B**

Kimball, Edwin Boyce, E. M., 284 Mountain Ave., Piedmont Station, Oakland, Cal. (50). **D E**

Kimball, James Henry, U. S. Weather Bureau, Richmond, Va. (51). **A B E**

Kimball, Sumner I., General Superintendent, Coast Guard, U. S. Treasury Department, Washington, D. C. (49). **H I**

*Kincaid, Trevor, Professor of Zoology, University of Washington, Seattle, Wash. (60). 1914. **F**

*Kindle, Edward Martin, Ph. D., Victoria Museum, Ottawa, Canada. (50). 1908. **E**

*King, Arthur Scott, Ph. D., Superintendent, Physical Laboratory, Mt. Wilson Solar Observatory, Pasadena, Cal. (60). 1910. **B**

*King, Charlotte M., Iowa Agricultural Experiment Station, Ames, Iowa. (62). 1915. **G**

*King, Cyrus Ambrose, Ph. D., 387 East 5th St., Brooklyn, N. Y. (50). 1904. **G**

*King, Edward Skinner, Harvard College Observatory, Cambridge, Mass. (60). 1913. **A B**

King, H. D., Inspector, 6th Light-House District, Charleston, S. C. (62).

*King, Helen Dean, Ph. D., Assistant Professor of Embryology, Wistar Institute of Anatomy, Philadelphia, Pa. (54). 1908. **F**

*King, Henry Churchill, D. D., LL. D., President, Oberlin College, Oberlin, Ohio. (63). 1914. **L**

King, Vernon, Wellington, Kansas. (64).

*King, W. F., Chief Astronomer, Dominion Observatory, Ottawa Canada. (55). 1908. **A**

*Kingsbury, Albert, M. E., 219 Stratford Ave., Pittsburgh, Pa. (43). 1898. **D**

*Kingsbury, Benjamin Freeman, M. D., Ph. D., Professor of Histology and Embryology, Cornell University, Ithaca, N. Y. (45). 1899. **F K**

*Kingsbury, Joseph T., President and Professor of Chemistry, University of Utah, Salt Lake City, Utah. (57). 1909. **C**

*Kingsley, John Sterling, Sc. D., Professor of Zoology, University of Illinois, Urbana, Ill. (52). 1904. **F**

Kinner, Hugo, M. D., 1103 Rutger St., St. Louis, Mo. (21). **F H K**

KINNEY, FRANCIS S., The Essex, New York, N. Y. (57).

Kinney, Frank F., E. E., Capital Electrical Engineering Co., Lansing, Mich. (60). **D**

Kinney, J. P., Indian Office, Washington, D. C. (66). **M**

*Kinnicut, Francis Parker, M. D., 39 East 35th St., New York, N. Y. (57). 1909. **K**

KINSEY, OLIVER P., Vice-President, Valparaiso University, Valparaiso, Ind. (58). **I**

Kinsler, John H., U. S. Department of Agriculture, Austwell, Texas. (52). **G**

*Kinsley, Carl, E, E. Associate Professor of Physics, University of Chicago, Chicago, Ill. (47). 1903. **B**

Kinsley, M. H., School 1, West Hoboken, N. J. (60). **L**

Kinsman, Arthur D., Ph. D., 80 County Road, Ipswich, Mass. (66). **A**

Kipper, H. Brunswick, Ph. D., care Solvay Process Co., Syracuse, N. Y. (60). **C**

Kirby, Gustavus Town, 2 Wall St., New York, N.Y. (54). **B D**

Kirby, I. Henry, C. E., Roslyn, N. Y. (60). **D**

Kirchner, Walter C. G., M. D., 508 Metropolitan Building, St. Louis, Mo. (64). **K**

Kirchner, William H., Professor of Geometry, University of Minnesota, Minneapolis, Minn. (62). **A D**

*Kirk, Charles Townsend, Ph. D., University of New Mexico, Albuquerque, N. M. (61). 1911. **E**

Kirk, Edward Cameron, D. D. S., Sc. D., Dean of the Faculty of Dentistry, University of Pennsylvania, Philadelphia, Pa. (54).

*Kirk, Edwin, 2015 G St., N. W., Washington, D. C. (57). 1911. **E F**

KIRKHAM, STANTON DAVIS, Canandaigua, N. Y. (61).

*Kirkham, William Barri, Ph. D., Department of Biology, Yale University, New Haven, Conn. (60). 1913. **F**

Kirkland, Archibald, 78 High St., Irvine, Ayrshire, Scotland. (56). **C**

Kirkland, Burt P., Professor of Forestry, University of Washington, Seattle, Wash. (66). **M**

*Kirkpatrick, Edwin Asbury, State Normal School, Fitchburg, Mass. (49). 1905. **L**

Kirkpatrick, Samuel, M. D., Parish Building, Selma, Ala. (51). **K**

Kirkpatrick, William F., Connecticut Agricultural College, Storrs, Conn. (64). **F**

*Kirkwood, Joseph Edward, Ph. D., Professor of Botany and Forestry, University of Montana, Missoula, Mont. (51). 1905. **G M**

*Kissell, Mary Lois, 417 West 120th St., New York, N. Y. (58). 1913. **H**

*Kite, George Lester, M. D., Ph. D., Henry Phipps Institute, University of Pennsylvania, Philadelphia, Pa. (60). 1915. **F**

*Kite, Miss Rebecca, High School, Jamaica Plain, Mass. (61). 1915. **F**

Kitsee, Isador, E. E., 209 Walnut Place, Philadelphia, Pa. (58). **D**
Kittelberger, Arthur S., 1527 Mars Ave., Lakewood, Ohio. (63). **C**
Kittredge, Harvey Gaylord, P. O. Box 905, Dayton, Ohio. (58). **C**
Klamp, Augustus J., E. M., Drawer 1, Rhyolite, Nev. (58). **D**
Klaus, Carl F., 2209 West 22d St., Chicago, Ill. (58).
Kleckner, Martin Ezra, Professor of Chemistry and Geology, Heidelberg University, Tiffin, Ohio. (64). **C E**
*Klein, Arthur Warner, M. E., Associate Professor of Mechanical Engineering, Lehigh University, South Bethlehem, Pa. (60). 1915. **D**
Klein, Edward Nichols Emil, 135 14th St., College Point, N. Y. (56). **C G**
*Kleiner, Israel Simon, Ph. D., Rockefeller Institute for Medical Research, New York, N. Y. (57). 1915. **C K**
Klepetko, Frank, E. M., 42 Broadway, New York, N. Y. (50). **D**
Kletzsch, Gustave A., M. D., 453 Cass St., Milwaukee, Wis. (51). **K**
Klie, G. H. Charles, M. D., 5100 North Broadway, St. Louis, Mo. (39). **C F K**
Kligler, Israel Jacob, 824 East 165th St., Bronx, New York, N. Y. (63). **F K**
Klinck, Leonard S., College of Agriculture, University of British Columbia, Vancouver, B. C., Canada. (66). **M**
Kline, Irvin Eugene, Blair Academy, Blairstown, N. J. (58). **A B L**
Kline, Ivan K., Myerstown High School, Myerstown, Pa. (65).
*Kline, Linus Ward, Ph. D., Head, Department of Psychology and Education, State Normal School, Duluth, Minn. (62). 1915. **L**
Klipphahn, Ernest O. E., E. E., Pike, Cal. (60). **D**
*Klopsteg, Paul E., University of Minnesota, Minneapolis, Minn. (64). 1915. **B**
*Klotz, Oskar, M. D., Professor of Pathology and Bacteriology, University of Pittsburgh, Pittsburgh, Pa. (62). 1915. **K**
*Klotz, Otto Julius, LL. D., 437 Albert St., Ottawa, Canada. (38). 1889. **A B**
Kluegel, Charles Henry, C. E., 1507 Alexander St., Honolulu, Hawaii. (60). **D**
*Knab, Frederick, U. S. National Museum, Washington, D. C. (53). 1914. **F**
Knapp, Arthur, Houma, La. (61).
Knapp, E. V., M. D., St. Luke's Hospital, San Francisco, Cal. (66). **K**
*Knapp, Hon. Martin Augustus, LL. D., Southern Building, Washington, D. C. (52). 1904. **I**
Knapp, Rudolf Ernest, 363 Hubbard Ave., Detroit, Mich. (65). **G**
*Knaus, Warren, McPherson, Kans. (58). 1914. **F**
*Kneeland, Frederick Revell, Massachusetts Institute of Technology Boston, Mass. (58). 1911. **B C**
*Knight, Charles Mellen, Sc. D., 129 South Union St., Akron, Ohio. (29). 1904. **B C**

*Knight, Lee Irving, Hill Botanical Laboratory, University of Chicago, Chicago, Ill. (60). 1911. **G**

Knight, Lucian Lamar, State Historian, Atlanta, Ga. (64).

*Knipp, Charles Tobias, Ph. D., Assistant Professor of Physics, University of Illinois, Urbana, Ill. (46). 1900. **B**

Knoll, Lloyd Monroe, 3262 Chestnut St., Philadelphia, Pa. (61).

*Knopf, Adolph, Ph. D., U. S. Geological Survey, Washington, D. C. (62). 1913. **E**

*Knopf, S. Adolphus, M. D., 16 West 95th St., New York, N. Y. (57). 1909. **K**

*Knower, Henry McElderry, Ph. D., Professor of Anatomy, Medical College, University of Cincinnati, Cincinnati, Ohio. (52). 1905. **F K**

*Knowlton, Ansel A., Professor of Physics, Reed College, Portland, Oregon. (60). 1911. **B**

*Knowlton, Frank P., M. D., Professor of Physiology, College of Medicine, Syracuse University, Syracuse, N. Y. (58). 1911. **K**

Knowlton, John G. W., M. D., Exeter, N. H. (60). **K**

Knox, Miss Alice A., 84 Cornelia St., Utica, N. Y. (60). **G**

Knox, Francis Henry, E. E., Spartanburg, S. C. (50). **A B C D**

Knox, Henry Hobart, E. M., 82 Beaver St., New York, N. Y. (50). **D E**

Knox, James H. M., Jr., M. D., 211 Wendover Road, Station W, Baltimore, Md. (60). **K**

*Knudson, Lewis, Ph. D., Department of Plant Physiology, Cornell University, Ithaca, N. Y. (62). 1915. **G**

Knupp, Noah D., High School, Santa Monica, Cal. (62). **G**

Knuth, Paul W., Professor of Psychology, German College, Dubuque, Iowa. (64). **H L**

*Kober, George Martin, M. D., LL. D., Professor of Hygiene, Georgetown University, Washington, D. C. (40). 1896. **E K**

Kober, Philip Adolph, Hastings upon Hudson, N. Y. (65). **C K**

Koch, Ernest Herman, Jr., 874 South 15th St., Newark, N. J. (58). **A D L**

Koch, Fred Conrad, Ph. D., Assistant Professor of Physiological Chemistry, University of Chicago, Chicago, Ill. (62). **C**

Koch, Julius Arnold, Ph. D., 28 Arlington Ave., Pittsburgh, Pa. (58). **B C K**

Koch, Miss Mathilde, U. S. Public Health Service, Washington, D. C. (65). **F K**

Koenig, Adolph, M. D., 1111 Westinghouse Building, Pittsburgh, Pa. (50). **F G K**

Koessler, Karl Konrad, M. D., Assistant Professor of Medicine, Rush Medical College, Chicago, Ill. (65). **K**

*Kofoid, Charles Atwood, Ph. D., Professor of Zoology, University of California, Berkeley, Cal. (48). 1899. **F**

Kohler, Henry L., 2315 Ann Ave., St. Louis, Mo. (60). **C**

Kohlsaat, John E. C., 1739 Eastern Ave., Cincinnati, Ohio. (58). **E F G**

Kolbenheyer, Frederick, M. D., 2006 Lafayette Ave., St. Louis, Mo. (51). **K**

Kong, Dr. S. T., E. M., Gen. Mgr., Imperial Smelting Works, Changsha, China. (61). **D**

*Kornhauser, Sidney I., Wurzburg Zoological Institute, Wurzburg, Germany. (61). 1915. **F**

Korssell, Claus F. P., M. D., 5502 Indiana Ave., Chicago, Ill. (60). **K**

Kostir, Wencel J., Ohio State University, Columbus, Ohio. (65). **F G**

Kotz, Adam L., M. D., High and Reeder Sts., Easton, Pa. (58). **K**

Koues, Miss Elizabeth L., 211 West 102d St., New York, N. Y. (41). **I**

*Kovarik, Alois Francis, Ph. D., Assistant Professor of Physics, University of Minnesota, Minneapolis, Minn. (58). 1911. **B**

*Kower, Hermann, C. E., University of California, Berkeley, Cal. (58). 1915. **D**

*KRAEMER, HENRY, Ph. D., 145 North 10th St., Philadelphia, Pa. (57). 1901. **G**

*Kraus, Edward Henry, Ph. D., University of Michigan, Ann Arbor, Mich. (50). 1906. **C E**

Krause, Otto H., Prospect Ave., Hackensack, N. J. (50). **B C D E**

*Krauss, Frederick G., New Era Homestead Farms, Haiku, Maui, Hawaii. (58). 1911. **G M**

Krauss, Victor P., 2847 Bainbridge Ave., Bedford Park, New York, N. Y. (60). **C**

*Krécsy, Béla, Ph. D., vi Bulyovsky u. 26, Budapest, Hungary. (41). 1914. **C L**

*Kremers, Edward, Ph. D., 1720 Vilas St., Madison, Wis. (47). 1901. **C**

Krenerick, H. Clyde, Department of Physics, Milwaukee High School, Milwaukee, Wis. (62). **B**

Kress, George H., M. D., 245 Bradbury Building, Los Angeles, Cal. (66).

Kress, Otto, 438 West 116th St., New York, N. Y. (58). **C**

*Kressmann, Frederick William, Forest Products Laboratory, U. S. Forest Service, Madison, Wis. (60). 1915. **C M**

Kretz, Walter C., Ph. D., 1115 West State St., Trenton, N. J. (54). **A D**

*Kribs, Herbert Guy, Ph. D., Zoological Laboratory, University of Pennsylvania, Philadelphia, Pa. (53). 1913. **F**

*Kroeber, Alfred L., Ph. D., Affiliated Colleges, San Francisco, Cal. (47). 1901. **H**

Kroeck, Louis Samuel, College Park, San José, Cal. (60).

*Krohn, William Otterbein, M. D., Ph. D., Heyworth Building, Chicago, Ill. (60). 1911. **K**

Krotaszyner, Martin, M. D., 999 Sutter St., San Francisco, Cal. (65). **K**

Krumbhaar, Edward Bell, M. D., St. Martin's, Philadelphia, Pa. (64). **K**

Kudlich, Herman C., 233 Broadway, New York, N. Y. (57).

Kuehne, John Matthias, Adjunct Professor of Physics, University of Texas, Austin, Texas. (58). **B**

Kuh, Sydney, M. D., 30 North Michigan Boulevard, Chicago, Ill. (54). **H K**

*Kummel, Henry Barnard, Ph. D., State Geologist of New Jersey, Trenton, N. J. (58). 1911. **E**

Kummer, Frederic Arnold, C. E., President, United States Wood Preserving Co., 29 Broadway, New York, N. Y. (51). **D**

*Kunkel, Beverly Waugh, Ph. D., Associate Professor of Zoology, Beloit College, Beloit, Wis. (55). 1909. **F**

*Kuntz, Albert, Assistant Professor of Biology, School of Medicine, St. Louis University, St. Louis, Mo. (63). 1914. **F**

*Kunz, George Frederick, Sc. D., Ph. D., 601 Cathedral Parkway, New York, N. Y. (29). 1883. **E H I**

*Kunze, Edward Joseph, M. E., Professor of Mechanical Engineering, Oklahoma A. and M. College, Stillwater, Okla. (57). 1910. **B D L**

Kupfer, Elsie M., M. D., 44 West 97th St., New York, N. Y. (60). **G K**

*Kutchin, Mrs. Harriet Lehmann, The Maplewood, Green Lake, Wis. (58). 1913. **K**

KWANG, KWONG YUNG, D. Eng., Lincherg Mines, Lincherg, via Peking, North China. (64). **C D E**

*Lachman, Arthur, Ph. D., 1926 Lake St., San Francisco, Cal. (50). 1901. **C D K**

Lacy, Burritt Samuel, Ph. D., Sewaren, N. J. (63). **C**

*Ladd, Edwin Fremont, LL. D., Professor of Chemistry, North Dakota Agricultural College, Fargo, N. D. (36). 1889. **C**

*Ladd, George Trumbull, D. D., LL. D., Professor of Philosophy, Yale University, New Haven, Conn. (60). 1911. **H**

Ladd, James B., 1011 Chestnut St., Philadelphia, Pa. (54). **D**

*La Flesche, Francis, 214 First St. S. E., Washington, D. C. (33). 1885. **H**

Lagai, George, Ph. D., 1072 South St., Rochester, N. Y. (58). **C F G K L**

Lagergren, J. T., University of Toronto, Toronto, Canada. (65).

*Lahee, Frederick H., Assistant Professor of Geology, Massachusetts Institute of Technology, Boston, Mass. (60). 1915. **E**

Lahey, Frank H., M. D., 827 Boylston St., Boston, Mass. (60). **K**

Laird, Clinton Nevius, Professor of Chemistry, Canton Christian College, Canton, China. (62). **C**

*Laird, Elizabeth Rebecca, Ph. D., Professor of Physics, Mount Holyoke College, South Hadley, Mass. (56). 1906. **B**

Laird, George A., E. M., 98 Raglan St., Mosman, Sydney, N. S. W. (60). **D**

Lake, William Mac., M. D., Silver City, New Mexico. (60). **K**

Lakey, Roland Treiber, 17 Fulton Ave., Rochester, N. Y. (60). **C**

*Lamb, Daniel Smith, M. D., Professor of Anatomy, Howard University, Washington, D. C. (40). 1894. **H K**

Lamb, George Franklin, Professor of Biology, Mt. Union College, Alliance, Ohio. (57). **F**

Lamb, Robert Scott, M. D., The Cecil, 15th and L Sts., Washington, D. C. (60). **K**

Lamb, William Alfred, C. E., U. S. Geological Survey, Helena, Mont. (60). **D E**

*Lambert, Alexander, M. D., 43 East 72d St., New York, N. Y. (57). 1908. **K**

Lambert, Avery E., Ph. D., Professor of Biology, Middlebury College, Middlebury, Vt. (66). **F**

Lambert, L. F., Foot of Payne Ave., St. Paul, Minn. (62).

*Lambert, Preston Albert, Professor of Mathematics, Lehigh University, South Bethlehem, Pa. (41). 1896. **A**

*Lambert, Samuel Waldron, M. D., Dean, College of Physicians and Surgeons, New York, N. Y. (57). 1908. **K**

Lampard, Henry, 51 Hallowell St., Westmont, Quebec, Can. (40). **C D E**

*Lampland, Carl Otto, Lowell Observatory, Flagstaff, Arizona. (62). 1913. **A**

Lamson, George H., Jr., Professor of Zoology, Conn. Agricultural College, Storrs, Conn. (65). **F**

Lamson, William M., Ph. D., Municipal Building, New York, N. Y. (62). **D**

Lamson-Scribner, Prof. Frank, U. S. Department of Agriculture, Washington, D. C. (63). **G**

Lanahan, Joseph A., M. D., 161 Hamilton St., Albany, N. Y. (60). **K**

Lancaster, Walter Beckett, M. D., 522 Commonwealth Ave., Boston, Mass. (51). **K**

Lance, Harold B., 2768 Bainbridge Ave., Bronx, New York, N. Y. (57). **D F G**

Lancefield, Donald E., Reed College, Portland, Oregon. (65).

*Land, William Jesse Goad, Ph. D., Assistant Professor of Botany, University of Chicago, Chicago, Ill. (52). 1904. **G**

*Landacre, Francis Leroy, Professor of Zoology and Entomology, Ohio State University, Columbus, Ohio. (53). 1906. **F**

*Landes, Henry, Professor of Geology, University of Washington, Seattle, Wash. (51). 1903. **E**

*Landis, William Weidman, Sc. D., Professor of Mathematics, Dickinson College, Carlisle, Pa. (50). 1906. **A**

Landman, Otto, M. D., 230 Michigan St., Toledo, Ohio. (60). **K**

Landon, Francis G., Mansewood, Staatsburg, N. Y. (50).

*Landreth, Olin Henry, C. E., Professor of Engineering, Union University, Schenectady, N. Y. (28). 1883. **D**

*Landrum, Robert Dallas, 75 Strathmore Ave., Cleveland, Ohio. (58). 1911. **C D L**

*Lane, Alfred Church, Ph. D., Professor of Geology and Mineralogy, Tufts College, Tufts College, Mass. (50). 1902. **E**

Lane, Earl Carlton, H. S. P. A. Experiment Station, Honolulu, Hawaii. (60). **C**

*Lane, Henry Higgins, Ph. D., Professor of Zoology, University of Oklahoma, Norman, Okla. (55). 1910. **F G**

Lane, J. Harold, United Drug Co., 93 Leon St., Boston, Mass. (60). **C**

Lang, George, Jr., 3601 Salena St., St. Louis, Mo. (64).

LANG, JAMES SHERBURNE, 35 Rutland Square, Boston, Mass. (64).

Lang, John Frederick, M. D., 933 West Fayette St., Baltimore, Md. (60). **K**

*Langenbeck, Karl, 1625 Hobart St., Washington, D. C. (39). 1896. **C**

*Langfeld, Herbert Sidney, Harvard University, Cambridge, Mass. (63). 1915. **H L**

Langguth, J. William, 1828 Arthur Ave., Bronx, New York, N. Y. (60). **A**

Langland, James, *Daily News*, Chicago, Ill. (58).

Langley, O. Velpeau, M. D., 514 Avenue A., Opelika, Ala. (60). **K**

*Langmann, Gustav A., M. D., 121 West 57th St., New York, N. Y. (39). 1907. **G K**

*Langmuir, Arthur C., Ph. D., 9 Van Brunt St., Brooklyn, N. Y. (63). 1915. **C**

*Langmuir, Irving, Ph. D., Gen. Electric Co., Schenectady, N. Y. (60.) 1911. **C**

*Langsdorf, Alexander Suss, Dean, Schools of Engineering and Architecture, and Professor of Electrical Engineering, Washington University, St. Louis, Mo. (50). 1904. **B D**

*Langworthy, Charles Ford, Ph. D., Sc. D., U. S. Department of Agriculture, Washington, D. C. (56). 1908. **C**

Lankford, Henry M., M. D., Leavenworth, Kans. (60). **K**

Lankford, John S., M. D., San Antonio, Texas. (60). **K**

Lantz, Miss Willie A., Teacher of Science, Woman's College, Frederick, Md. (54). **F G**

Lapham, Jesse Erwin, U. S. Department of Agriculture, Washington, D. C. (62). **C G**

Lapham, Macy H., U. S. Department of Agriculture, Washington, D. C. (62). **G**

Laramy, Robert Edward, City Superintendent, Department of Public Instruction, Easton, Pa. (51). **E H**

Larchar, Arthur B., Great Works, Me. (58). **C**

*LARKIN, EDGAR LUCIEN, Director, Lowe Observatory, Echo Mountain, Cal. (51). 1903. **A**

Larkin, John Charles, M. D., Hillsboro, Ohio. (54). **K**

Larned, Charles W., 1327 Park Ave., Baltimore, Md. (60).

Larned, S. J., 230 West Washington St., Chicago, Ill. (58).

La Roque, George Paul, M. D., Associate Professor of Surgery, Medical College of Virginia, Richmond, Va. (64). **K**

Larrabee, Austin P., Professor of Biology, Fairmont College, Wichita, Kansas. (54). **F**

Larrimer, Walter, U. S. Entomological Laboratory, Wellington, Kansas. (65). **F**

Larsell, Olof, 940 B St., McMinnville, Oregon. (65).
*Larsen, Esper S., Jr., Bacon Hall, University of California, Berkeley, Cal. (63). 1913. **E**
Larsen, L. David, H. S. P. Experiment Station, Honolulu, Hawaii. (60). **G**
Larson, Ole S., care Scandinavian American Bank, Seattle, Wash. (58).
*La Rue, George Roger, Ph. D., Professor of Zoology, University of Michigan, Ann Arbor, Mich. (63). 1915. **F**
*Lasché, Alfred J. M., 629 28th St., Milwaukee, Wis. (60). 1910. **C**
Lascoff, J. Leon, 1223 Lexington Ave., New York, N. Y. (63).
Lathrop, Bryan, 1675 Old Colony Building, Chicago, Ill. (58).
*Lathrop, Elbert C., Bureau of Soils, U. S. Department of Agriculture, Washington, D. C. (63). 1914. **G**
Latimer, Homer Barker, Professor of Zoology, Nebraska Wesleyan University, Lincoln, Nebr. (61). **F**
Latta, John Milton, M. D., 115 North Lawrence Ave., Wichita, Kans. (54). **H I K**
Lauder, George, E. M., 7403 Penn Ave., Pittsburgh, Pa. (50). **D**
Laufer, Berthold, Ph. D., Field Museum of Natural History, Chicago, Ill. (63). **F**
Laughlin, Charles E., M. D., Superintendent, South Indiana Hospital for Insane, Evansville, Ind. (58). **D H I K**
*Laughlin, Harry Hamilton, Cold Spring Harbor, L. I., N. Y. (60). 1915. **F**
*Lauman, George Nieman, Professor of Rural Economy, Cornell University, Ithaca, N. Y. (50). 1915. **I L M**
*Laurens, Henry, Zoological Laboratory, Yale University, New Haven, Conn. (61). 1915. **F**
Lauritzen, John Irwin, Agricultural College of Utah, Logan, Utah. (65). **G**
Lavagnino, G., E. M., 593 East California St., Pasadena, Cal. (60). **D**
Lavers, Enoch C., Ph. D., 297 Virginia Ave., Jersey City, N. J. (54). **A L**
Lavery, Charles J., M. D., Fort Pierre, S. D. (60). **K**
*Laves, Kurt, Ph. D., Associate Professor of Astronomy, University of Chicago, Chicago, Ill. (58). 1909. **A**
Law, Benedict W., Collins, N. Y. (45). **E**
Law, J. Eugene, 1834 El Cerrito Place, Hollywood, Cal. (65).
*La Wall, Charles Herbert, Analytical and Consulting Chemist, 39 South 10th St., Philadelphia, Pa. (58). 1911. **C**
Lawbaugh, Elmer Arthur, P. O. Box 664, Meriden, Conn. (52). **K**
*Lawrence, A. E., The Lichen, Seal Harbor, Me. (49). 1906. **B**
Lawrence, Florus Fremont, M. D., Sc. D., LL. D., Chief of Staff and Surgeon, Lawrence Hospital, Columbus, Ohio. (53). **K**
Lawrence, George Alfred, M. D., 142 West 86th St., New York, N. Y. (57). **H K**

*Lawrence, Henry Edmund, University of Rochester, Rochester, N. Y. (44). 1906. **B**

*Lawrence, James W., Professor of Mechanical Engineering, State Agricultural College, Fort Collins, Colo. (50). 1912. **D**

Lawrence, John V., Station for Experimental Evolution, Cold Spring Harbor, N. Y. (65). **C**

Lawrence, William Evans, Department of Botany, Oregon State Agricultural College, Corvallis, Ore. (60). **G**

Lawrie, Harold N., E. M., 526 Yeon Building, Portland, Oregon. (58). **D**

*Lawson, Andrew Cowper, Ph. D., Professor of Geology and Mineralogy, University of California, Berkeley, Cal. (50). 1901. **E**

Lawton, William Henry, C. E., 24 Bellevue Ave., Newport, R. I. (60). **D**

*Lazell, Ellis Warren, Ph. D., care A. S. Spackman Engineering Co., 42 North 16th St., Philadelphia, Pa. (51). 1911. **C**

*Lazenby, William Rane, Professor of Forestry, Ohio State University, Columbus, Ohio. (30). 1882. **G I L M**

Lea, Charles M., Valley Forge Road, Devon, Pa. (58).

*Leach, Mary F., Ph. D., Professor of Chemistry, Western College, Oxford, Ohio. (44). 1896. **C F K**

Leaf, Carl E., 204 New York St., Aurora, Ill. (60). **C**

Leal, Manuel T., M. D., 1120 Farragut St., Laredo, Texas. (58). **K**

*Leaming, Edward, M. D., 11 East 48th St., New York, N. Y. (50). 1901. **C**

*Leary, Timothy, M. D., Tufts College Medical School, Boston, Mass. (60). 1911. **K**

Leathers, Adelbert L., 2034 Orrington Ave., Evanston, Ill. (64). **F**

*Leavenworth, Francis P., Professor of Astronomy, University of Minnesota, Minneapolis, Minn. (62). 1913. **A**

*Leavenworth, William S., Olivet College, Olivet, Mich. (60). 1915. **C**

*Leavitt, Frank McDowell, M. E., 133 Plymouth St., Brooklyn, N. Y. (51). 1904. **D**

*Leavitt, Miss Henrietta S., Harvard College Observatory, Cambridge, Mass. (55). 1907. **A**

*Le Baron, John Francis, C. E., E. M., Chardon, Ohio. (51). 1903. **D E F H**

*Le Clerc, J. Arthur, Ph. D., Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (58). 1911. **C G**

*Le Conte, Robert Grier, M. D., 1625 Spruce St., Philadelphia, Pa. (51). 1911. **K**

*Le Count, Edwin Raymond, M. D., Professor of Pathology, Rush Medical College, Chicago, Ill. (58). 1909. **K**

*Ledoux, Albert Reid, Ph. D., 99 John St., New York, N. Y. (26). 1881. **C D**

Ledyard, Edgar Madison, Director, Agricultural Department, U. S. Smelting Company, Salt Lake City, Utah. (62). **F M**

Lee, Blewett, Illinois Central R. R. Co., 135 East 11th Place, Chicago, Ill. (58). **H I**

*Lee, Frederic Schiller, Ph. D., Professor of Physiology, Columbia University, New York, N. Y. (49). 1901. **K**

*Lee, John Yiubong, Ryerson Physical Laboratory, University of Chicago, Chicago, Ill. (63). 1915. **B**

Lee, Marguerite Thouron, Ph. D., 66 West 95th St., New York, N. Y. (60). **A F**

*Lee, Oliver Justin, Ph. D., Williams Bay, Wis. (61). 1913. **A**

Lee, Ralph Everett, M. D., 427 Smith St., Peekskill, N. Y. (66). **C**

*Lee, Richard Edwin, Sc. D., Professor of Chemistry, Allegheny College, Meadville, Pa. (53). 1908. **C**

Lee, Richard H., 806 American Trust Building, Cleveland, Ohio. (63).

*Lee, Thomas George, M. D., Professor of Histology and Embryology, University of Minnesota, Minneapolis, Minn. (55). 1907. **F K**

*Lee, Willis Thomas, Ph. D., U. S. Geological Survey, Washington, D. C. (47). 1903. **E**

Leeds, Alexander B., M. D., Chickasha, Okla. (58). **K**

*Leeds, Morris Evans, 4901 Stenton Ave., Philadelphia, Pa. (50). 1906. **B**

*Lees, James H., Iowa Geological Survey, State House, Des Moines, Iowa. (62). 1914. **E**

*Lefavour, Henry, Ph. D., LL. D., President, Simmons College, Boston, Mass. (42). 1894. **B I**

*Lefevre, George, Ph. D., Professor of Zoology, University of Missouri, Columbia, Mo. (55). 1908. **F**

Leffingwell, Ernest de Koven, P. O. Box 1133, Pasadena, Cal. (63).

Leffler, Burton Rutherford, C. E., 1515 East 86th St., Cleveland, Ohio. (58). **D**

Lehenbauer, Philip Augustus, Department of Botany, University of Nevada, Reno, Nev. (62). **G**

Lehman, Daniel A., Goshen College, Goshen, Ind. (62). **A B L**

LEHMAN, MEYER H., 667 Madison Ave., New York, N. Y. (57).

*Lehmer, Derrick Norman, Ph. D., Associate Professor of Mathematics, University of California, Berkeley, Cal. (60). 1910. **A**

Lehndorff, Elmer R., Rogers, Michigan. (63). **E**

Lehnerts, Edward M., Assistant Professor of Geography and Geology, University of Minnesota, Minneapolis, Minn. (62). **E**

Leib, Judge Samuel Franklin, San José, Cal. (65).

Leiby, Rowland Willis, State Museum Building, Raleigh, N. C. (65). **F M**

*Leidy, Joseph, M. D., 1319 Locust St., Philadelphia, Pa. (51). 1906. **K**

*Leighton, Joseph Alexander, Ph. D., Professor of Philosophy, Ohio State University, Columbus, Ohio. (60). 1915. **H**

Leighton, Morris M., 5344 Woodlawn Ave., Chicago, Ill. (64). **E**

Leighty, Clyde Evert, Ph. D., 2813 Quarry Road, Washington, D. C. (63). **G**

*Leith, Charles Kenneth, Ph. D., Professor of Economic and Structural Geology, University of Wisconsin, Madison, Wis. (53). 1906. **E**

Leitz, Ernst, 30 East 18th St., New York, N. Y. (60).

Leland, George Adams, M. D., 354 Commonwealth Ave., Boston, Mass. (58). **K**

*Leland, Ora Miner, Assistant Professor of Geodesy and Astronomy, Cornell University, Ithaca, N. Y. (54). 1910. **A B D**

Leman, William T., P. O. Box 900, St. Louis, Mo. (58). **B C D E**

Lemley, Cassius McCarl, C. E., Assistant Engineer, B. & O. R. R. Co., Morgantown, W. Va. (51). **D**

*Lemon, James S., Ph. D., 31 Park St., Gardner, Mass. (52). 1913. **H**

*Leng, Charles William, 439 Columbia St., West New Brighton, Staten Island, N. Y. (54). 1915. **F**

*Lengfeld, Felix, Ph. D., Consulting and Manufacturing Chemist, 1350 Sutter St., San Francisco, Cal. (51). 1904. **C**

*Lenher, Victor, Ph. D., Professor of Chemistry, University of Wisconsin, Madison, Wis. (52). 1904. **C**

Lenk, Walter S. care Lenk Wine Co., West Toledo, Ohio. (60). **C**

*Lennes, Nels Johann, Ph. D., University of Montana, Missoula, Mont. (60). 1911. **A**

*Lenox, Lionel Remond, Professor of Analytical Chemistry, Leland Stanford Junior University, Stanford University, Cal. (63). 1915. **C**

*Leonard, Arthur Gray, Ph. D., Professor of Geology, University of North Dakota, University, N. D. (58). 1910. **E**

*Leonard, Heman Burr, Ph. D., Assistant Professor of Mathematics, University of Oregon, Eugene, Ore. (60). 1914. **A**

Leonard, John William, 43 West 27th St., New York, N. Y. (51). **I**

Leonard, Mortimer D., Cornell University, Ithaca, N. Y. (63). **F**

Leonard, Ward H., M. D., 608 Southwest Boulevard, Kansas City, Mo. (60). **K**

Lerche, William, M. D., Lowry Building, St. Paul, Minn. (60). **K**

Lesher, Arthur L., 670 Broadway, New York, N. Y. (57).

Lesley, Robert W., 604 Pennsylvania Building, Philadelphia, Pa. (54). **C**

Leslie, George L., Director, Psychological Clinic, Los Angeles City Schools, Health Department, Los Angeles, Cal. (58). **H**

*Lester, Oliver Clarence, Ph. D., Professor of Physics, University of Colorado, Boulder, Colo. (58). 1911. **A B**

*Leuba, James Henry, Ph. D., Professor of Psychology, Bryn Mawr College, Bryn Mawr, Pa. (58). 1911. **H**

*Leuschner, Armin Otto, Sc. D., Ph. D., Professor of Astronomy, Students College, University of California, Berkeley, Cal. (63). 1913. **A**

*Levene, Phoebus Aaron Theodor, M. D., Rockefeller Institute for Medical Research, New York, N. Y. (53). 1906. **C K**

Levensaler, Lewis A., E. M., Kennecott, via Valdez, Alaska. (60). **D**

*Leverett, Frank, 1724 South University Ave., Ann Arbor, Mich. (37). 1891. **E H I**

LEVERETT, GEORGE VASMER, 66 Beacon St., Boston, Mass. (60).
Levin, Arvid Michael, M. E., 910 Monadnock Building, Chicago, Ill. (60). **D**
Levine, Michael, Ph. D., 449 West 124th St., New York, N. Y. (66). **G**
Leviston, Prof. Irwen, Paxton Hall, R. F. D., Clayville, Va. (62). **B E**
Levy, Augustus, 127 Lewis St., Geneva, N. Y. (64). **C**
*Levy, Ernest Coleman, M. D., 2517 Grove Ave., Richmond, Va. (54). 1906. **C K**
Levy, Louis Edward, 1424 North 15th St., Philadelphia, Pa. (62).
*Lewis, Albert Buell, Ph. D., Field Museum of Natural History, Chicago, Ill. (58). 1909. **H**
Lewis, Bertha, M. D., Pembroke Road, Bryn Mawr, Pa. (54). **I K L**
Lewis, Charles Edward, Ph. D., Waterville, Me. (60). **G**
LEWIS, CLARENCE MCKENZIE, care Wm. Salomon & Co., 25 Broad St., New York, N. Y. (47). **D**
Lewis, Daniel C., Millville, N. J. (57). **C**
*Lewis, E. Percival, Ph. D., Professor of Physics, University of California, Berkeley, Cal. (53). 1905. **B**
*Lewis, Frederic Thomas, M. D., 76 Oxford St., Cambridge, Mass. (60). 1911. **F K**
*Lewis, Gilbert Newton, Ph. D., Professor of Physical Chemistry, University of California, Berkeley, Cal. (60). 1910. **C**
Lewis, Harry R., New Jersey Agricultural Experiment Station, New Brunswick, N. J. (63). **G**
Lewis, Lieut.-Col. I. N., U. S. A., 5 Adelphi Terrace, Strand, London, England. (58). **D**
Lewis, Dr. Isaac McKinney, University of Texas, Austin, Texas. (61). **G**
*Lewis, Ivey Foreman, Ph. D., Professor of Botany, University of Missouri, Columbia, Mo. (60). 1911. **G**
LEWIS, JOHN FREDERICK, 1914 Spruce St., Philadelphia, Pa. (65). **H I**
*Lewis, Joseph Volney, Professor of Geology and Mineralogy, Rutgers College, New Brunswick, N. J. (45). 1900. **C E**
Lewis, Morris James, M. D., Ph. D., 1316 Locust St., Philadelphia, Pa. (65). **K**
*Lewis, Paul Adin, M. D., The Henry Phipps Institute, Philadelphia, Pa. (62). 1915. **K**
Lewis, Ransome T., C. E., 412 West Clinton St., Elmira, N. Y. (60). **D**
Lewis, Robert Curtis, Ph. D., 213 Maple St., Spartanburg, S. C. (64). **C**
Lewis, Robert S., E. M., 270 South 13th East St., Salt Lake City, Utah. (60). **D**
Lewis, Rollin C. W., M. E., Yale and Towne Manufacturing Co., Stamford, Conn. (60). **D**
*Lewis, Warren Harmon, M. D., Professor of Physiological Anatomy, Johns Hopkins University, Baltimore, Md. (57). 1909. **K**
*Lewis, Wilfred, M. E., 18th and Hamilton Sts., Philadelphia, Pa. (51). 1906. **D**

Lewisohn, Adolph, 9 West 57th St., New York, N. Y. (57).
Lewisohn, Julius A., E. M., 9 West 57th St., New York. N. Y. (60). **D**
Lewton, Frederick Lewis, Takoma Park, D. C. (54). **C F G I**
*Lewton-Brain, Laurence, Director of Agriculture, Kuala Lumpur, Federated Malay States. (55). 1911. **G**
*Libbey, William, Sc. D., Professor of Physical Geography, Princeton University, Princeton, N. J. (29). 1887. **E**
Libby, George W., M. D., Traders Block, Spokane, Wash. (60). **K**
Libman, Emanuel, M. D., 180 East 64th St., New York, N. Y. (60). **K**
*Lichtenthaeler, Robert A., Assistant Professor of Chemistry, Agricultural Experiment Station, Kingston, R. I. (58). 1911. **B C E**
Lichthardt, G., Jr., 1800 Capitol Ave., Sacramento, Cal. (50). **C**
Lichty, Daniel, M. D., Masonic Temple, Rockford, Ill. (51). **K**
*Lichty, David Martin, Ph. D., Chemical Laboratory, Ann Arbor, Mich. (58). 1911. **C**
Liden, Prof. Oscar E., Coeur d'Alene College, Coeur d'Alene, Idaho. (64).
Lieb, John William, M. E., care The Edison Co., Irving Place and 15th St., New York, N. Y. (57). **D**
Lieber, Hugo, 25 Madison Ave., New York, N. Y. (53). **C**
Liebmann, Charles Joseph, 36 Forrest St., Brooklyn, N. Y. (58).
Liebmann, David, 40 East 72d St., New York, N. Y. (65).
Liebmann, Julius, 380 Clinton Ave., New York, N. Y. (65).
Lietze, Fred August, C. E., Carlyle, Ill. (64). **D**
*Life, Andrew C., Assistant Professor of Biology, University of Southern California, Los Angeles, Cal. (60). 1911. **F G**
Lightbody, Howard David, Warsaw High School, Warsaw, Ill. (66). **F**
Lightfoot, Thomas Montgomery, Assistant Professor of Physical Science, Central High School, Philadelphia, Pa. (51). **G**
Lightner, Calvin R., M. D., Metropolitan Building, St. Louis, Mo. (53). **K**
*Lillie, Frank Rattray, Ph. D., Professor of Zoology and Embryology, University of Chicago, Chicago, Ill. (50). 1901. **F**
*Lillie, Ralph Stayner, Ph. D., Biological Laboratory, Clark University, Worcester, Mass. (58). 1909. **F K**
*Lincoln, Francis Church, E. M., Ph. D., Head, Mackay School of Mines, University of Nevada, Reno, Nev. (57). 1911. **D E**
Lincoln, John J., E. M., General Manager, Upland Coal and Coke Co., Elkhorn, W. Va. (60). **D**
Lind, J. G., 2538 Monroe Ave., Ogden, Utah. (66).
*Lind, Samuel Colville, Ph. D., U. S. Bureau of Mines, Denver, Colo. (63). 1915. **C**
Lindahl, Josua, Ph. D., 5700 Peoria St., Chicago, Ill. (55). **F**
Lindenkohl, Henry, U. S. Coast and Geodetic Survey, Washington, D.C. (47). **D**
*Lindenthal, Gustav, C. E., P. O. Box 665, Metuchen, N. J. (37). 1891. **D F I**
*Lindgren, Waldemar, Professor of Economic Geology, Massachusetts Institute of Technology, Boston, Mass. (53). 1906. **E**

Lindley, Curtis Holbrook, E. M., LL. D., 2000 Pacific Ave., San Francisco, Cal. (60). **D**

*Lindley, Ernest Hiram, Ph. D., Professor of Psychology, Indiana University, Bloomington, Ind. (51). 1905. **H**

Lindsay, John Douglas, 34 West 11th St., New York, N. Y. (57). **I**

*Lindsay, Samuel McCune, Ph. D., Professor of Social Legislation, Columbia University, New York, N. Y. (54). 1906. **I L**

Lindsay, Walter, M. D., Huntington, L. I., N. Y. (60). **K**

*Lindsey, Edward, Warren National Bank Building, Warren, Pa. (48). 1906. **H I**

*Lindsey, Joseph B., Ph. D., Head, Department of Chemistry, Mass. Agricultural College, Amherst, Mass. (58). 1911. **C K**

*Lines, Edwin Fuller, Fayetteville, Ark. (54). 1911. **E**

Linfield, Frederick Bloomfield, Professor of Agronomy, Montana Agricultural Experiment Station, Bozeman, Mont. (65). **G M**

*Ling, Charles Joseph, Ph. D., Professor of Physics and Astronomy, Allegheny College, Meadville, Pa. (50). 1901. **A B**

*Ling, George Herbert, Ph. D., Professor of Mathematics and Dean, Faculty of Arts and Sciences, University of Saskatchewan, Saskatoon, Can. (52). 1906. **A**

LINHART, SAMUEL BLACK, D. D., Secretary and Professor of Biblical Literature and Ethics, University of Pittsburgh, Pittsburgh, Pa. (56).

Link, George K. K., Adjunct Professor of Agricultural Botany, University of Nebraska, Lincoln, Nebr. (63). **G M**

Link, J. Joseph, M. D., Metropolitan Building, St. Louis, Mo. (58). **K**

Link, Theodore Carl, Carleton Building, St. Louis, Mo. (51). **B E F G H K**

*Linn, Alvin Frank, Ph. D., Professor of Chemistry and Mineralogy, Wittenberg College, Springfield, Ohio. (50). 1901. **C**

Linsley, Earle G., Department of Geology, Mills College, Mills College, Cal. (66). **E**

Linton, C. B., 125 West Ocean Avenue, Long Beach, Cal. (65).

*Linton, Edwin, Ph. D., Professor of Biology, Washington and Jefferson College, Washington, Pa. (51). 1905. **F**

Linton, J. H., 502–504 Lyon Building, Seattle, Wash. (65).

*Linville, Henry Richardson, Ph. D., 6 Madison Ave., Jamaica, N. Y. (49). 1906. **F L**

*Lipka, Joseph, Ph. D., Massachusetts Institute of Technology, Boston, Mass. (58). 1913. **A**

*Lipman, Charles Bernard, Ph. D., Assistant Professor of Soil Chemistry and Bacteriology, University of California, Berkeley, Cal. (62). 1913. **C**

Lipman, F. L., Vice-President, Wells Fargo Nevada National Bank, San Francisco, Cal. (58). **I**

*Lipman, Jacob Goodale, Ph. D., Director, N. J. Agricultural Experiment Station, New Brunswick, N. J. (63). 1913. **G M**

Lisboa, Miguel Arrojado Ribeiro, E. M., 426, Praia Batafogo, Rio de Janeiro, Brazil, S. A. (60). **D**

Lischer, Benno Edward, M. D., 513 Wall Building, St. Louis, Mo. (53). **K**
Littauer, William, 1640 Rhode Island Ave., Washington, D. C. (65).
*Littell, Frank Bowers, Professor of Astronomy, U. S. Naval Observatory, Washington, D. C. (49). 1903. **A**
Litterer, William, M. D., care Vanderbilt Medical College, Nashville, Tenn. (60). **K**
*Little, Arthur Dehon, Chemist, 93 Broad St., Boston, Mass. (54). 1906. **C**
Little, C. A., P. O. Box 127, Elyria, Ohio. (60). **C**
Little, Clarence C., Cottage St., Brookline, Mass. (61). **F**
*Little, Homer P., Ph. D., Colby College, Waterville, Me. (61). 1915. **E**
*Littlehales, George Washington, C. E., 2132 Le Roy Place, Washington, D. C. (52). 1904. **A B D E**
Livermore, William Roscoe, Colonel U. S. A., Retired, 17 Hereford St., Boston, Mass. (61). **A B D**
*Livingston, Burton Edward, Ph. D., Professor of Plant Physiology, Johns Hopkins University, Baltimore, Md. (53). 1906. **G**
Livingstone, Colin Hamilton, 1249 Kenyon St., Washington, D. C. (62).
*Lloyd, Edwin Russell, U. S. Geological Survey, Washington, D. C. (64). 1915. **E**
*Lloyd, Francis Ernest, McDonald Professor of Botany, McGill University, Montreal, Can. (48). 1901. **G**
*Lloyd, John Thomas, New York State College of Agriculture, Ithaca, N. Y. (63). 1915. **F**
*Lloyd, John Uri, Ph. D., LL. D., President, The Lloyd Library, 224 West Court St., Cincinnati, Ohio. (38). 1890. **C F**
*Lloyd, Morton Githens, Ph. D., 608 So. Dearborn St., Chicago, Ill. (52). 1906. **B C I**
Lloyd, Thomas P., M. D., Shreveport, La. (60). **K**
Lloyd-Jones, Orren, Ames, Iowa. (63). **F**
*Lochhead, William, Professor of Biology, Macdonald College, Quebec, Canada. (51). 1906. **F G**
Locke, J. R., 156 Buena Vista Ave., West, Detroit, Mich. (65).
Lockwood, Charles Daniel, M. D., Pasadena, Cal. (64). **I K**
Lockwood, Cornelius Wygant, Stuyvesant High School, New York, N. Y. (51). **B D L**
*Lockwood, Edwin Hoyt, Ph. D., Assistant Professor of Mechanical Engineering, Yale University, New Haven, Conn. (50). 1912. **D**
*Locy, William Albert, Sc. D., Ph. D., Professor of Zoology, Northwestern University, Evanston, Ill. (58). 1910. **F**
Lodge, Prof. Richard Walley, Redlands, Cal. (62). **D**
*Lodholz, Edward, M. D., Assistant Professor of Physiology, University of Pennsylvania, Philadelphia, Pa. (53). 1915. **K**
*Loeb, Hanau Wolf, M. D., 537 North Grand Ave., St. Louis, Mo. (60). 1911. **K**
*Loeb, Jacques, M. D., Sc. D., Ph. D., Head, Department of Experimental Biology, Rockefeller Institute for Medical Research, New York, N. Y. (62). 1911. **K**

*Loeb, Leo, M. D., Director, Pathological Department, Barnard Skin and Cancer Hospital, St. Louis, Mo. (51). 1905. **F K**

Loeb, Milton Charles, 336 York St., Jersey City, N. J. (60). **C**

*Loevenhart, Arthur S., M. D., Professor of Pharmacology and Toxicology, University of Wisconsin, Madison, Wis. (60). 1911. **C F K**

*Loew, Oscar, Ph. D., München Hygienic Institute, München, Germany. (49). 1900. **K**

*Loewenstein, Louis C., Ph. D., 16 Wolcott Road, Lynn, Mass. (54). 1904. **D**

Loewy, Benno, Ph. D., 206-208 Broadway, New York, N. Y. (41).

Logan, Frank G., 1150 Lake Shore Drive, Chicago, Ill. (42). **H**

LOGAN, WILLIAM N., Ph. D., Director, School of General Science, Miss. A. and M. College, Agricultural College, Miss. (65). **D E**

Loguin, Alexander J., E. E., General Delivery, West Allis Station, Milwaukee, Wis. (58). **D**

Löhnis, Felix, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (65). **F**

Loines, Stephen, 51 Wall St., New York, N. Y. (65). **A**

Lomanitz, S., 2a Avenida Juarez 5, Tacuba, D. F., Mexico. (63). **C**

Lomb, Adolph, 37 St. Paul St., Rochester, N. Y. (41).

Lomb, Henry Charles, 11 East 68th St., New York, N. Y. (43). **B**

*Lombard, Warren Plimpton, M. D., Sc. D., Professor of Physiology, University of Michigan, Ann Arbor, Mich. (58). 1909. **K L**

*Long, David D., Bureau of Soils, U. S. Department of Agriculture, Washington, D. C. (62). 1915. **C**

Long, Eleanor Tatum, 522 East State St., Ithaca, N. Y. (63). **E**

Long, Esmond R., 5634 6th Ave., N. W., Seattle, Wash. (66). **K**

Long, Francis A., M. D., Madison, Nebr. (60). **K**

Long, Henry C., 617 Tremont Building, Boston, Mass. (60).

*Long, John Harper, Sc. D., Professor of Chemistry, Northwestern University Medical School, Chicago, Ill. (41). 1895. **C**

*Long, Joseph A., Ph. D., Department of Zoology, University of California, Berkeley, Cal. (61). 1913. **F**

Longaker, Daniel, M. D., 1402 North 16th St., Philadelphia, Pa. (53). **K**

*Longcope, Warfield Theobald, M. D., Bard Professor of Medicine, Columbia University, New York, N. Y. (62). 1914. **K**

*Longden, Aladine Cummings, Ph. D., Professor of Physics, Knox College, Galesburg, Ill. (49). 1901. **B**

Lonigo, Emil Victor, M. D., 1362 Grant Ave., San Francisco, Cal. (65). **K**

Lonsdale, James, M. D., Dale, Iowa. (60). **K**

*Loomis, Elmer Howard, Ph. D., Professor of Physics, Princeton University, Princeton, N. J. (54). 1906. **B**

*Loomis, Frederic Brewster, Ph. D., Professor of Zoology, Amherst College, Amherst, Mass. (50). 1913. **F**

Loomis, Howard, Department of Agronomy, South Dakota State College, Brookings, S. D. (62). **C**

*Loomis, Seymour Crane, 69 Church St., New Haven, Conn. (60). 1913. **I**

Looney, Wesley A., Frick Annex, Pittsburgh, Pa. (63). **C**

Lopez, Robert F., Commander, U. S. N., Retired, University Club, San Francisco, Cal. (66). **D I**

*Lord, Herbert Gardiner, Professor of Philosophy, Columbia University, New York, N. Y. (58). 1914. **H**

Lord, John Prentiss, M. D., 3421 Farnam St., Omaha, Nebr. (55). **G**

*Lorenz, Miss Annie, 96 Garden St., Hartford, Conn. (62). 1915. **G**

Lorini, Raffaele, M. D., Hotel del Coronado, Coronado Beach, Cal. (60). **K**

Lory, Charles Alfred, LL. D., President, State Agricultural College of Colorado, Fort Collins, Colo. (62). **L**

Lo Sardo, Antonino, 45 West 8th St., New York, N. Y. (58). **C**

*Lothrop, Alfred P., Department of Chemistry, Queen's University, Kingston, Ont., Canada. (60). 1915. **C**

*LOUDERBACK, GEORGE DAVIS, Ph. D., Associate Professor of Geology, University of California, Berkeley, Cal. (50). 1906. **E**

*Lough, James Edwin, Ph. D., Professor of Psychology, New York University, New York, N. Y. (50). 1901. **G H I**

*Loughlin, Gerald Francis, Ph. D., U. S. Geological Survey, Washington, D. C. (57). 1911. **E**

*Loughridge, Robert Hills, Ph. D., Emeritus Professor of Agricultural Chemistry, University of California, Berkeley, Cal. (21). 1874. **C E**

*Lounsbury, Charles Pugsley, Department of Agriculture, Pretoria, South Africa. (52). 1914. **F**

*Lounsbury, William C., Superintendent, Filtration Plant, 1518 Tower Ave., Superior, Wis. (58). 1911. **C**

Louria, Leon, M. D., 249 Hewes St., Brooklyn, N. Y. (60). **K**

Love, A. Cavitt, care Beaumont Irrigation Co., Beaumont, Tex. (58). **D**

*Love, Edward G., 101 West 85th St., New York, N. Y. (24). 1882. **C**

Love, Harry Houser, Professor of Plant Breeding, Cornell University, Ithaca, N. Y. (66). **G**

*Lovejoy, Arthur Oncken, Ph. D., Professor of Philosophy, Johns Hopkins University, Baltimore, Md. (58). 1911. **H**

Lovejoy, Frank William, M. E., 22 Seneca Parkway, Rochester, N. Y. (60). **D**

Lovejoy, Jesse Robert, Vice-President, General Electric Co., Schenectady, N. Y. (50). **D**

*Lovelace, Benjamin Franklin, Ph. D., Associate Professor of Chemistry, Johns Hopkins University, Baltimore, Md. (60). 1911. **C**

LOVELAND, HORACE HALL, M. D., Republic, Mich. (51). **K**

Lovell, John H., Waldoboro, Me. (58). **F G**

*Lovett, Edgar Odell, Ph. D., LL. D., President, The Rice Institute, Houston, Tex. (51). 1902. **A D L**

*Low, Albert Peter, Sc. D., LL. D., 154 McLaren St., Ottawa, Canada. (60). 1910. **E**

Low, Clarence F., care Liverpool and London and Globe Insurance Co., New Orleans, La. (52). **F G H I K L**

*Low, Hon. Seth, LL. D., 30 East 64th St., New York, N. Y. (29). 1890. **I**

Low, Wilson H., 220 South 38th Ave., Omaha, Nebr. (60). **C**

*Lowater, Frances, Ph. D., Pomeroy Hall, Wellesley College, Wellesley, Mass. (62). 1913. **A B**

*Lowber, James William, Sc. D., Ph. D., LL. D., 1706 Brazos St., Austin, Tex. (50). 1906. **A E H I L**

*Lowe, Ephraim Noble, M. D., Director, Geological Survey of Mississippi, Jackson, Miss. (55). 1915. **E**

*Lowell, Percival, LL. D., Professor of Astronomy, Massachusetts Institute of Technology, Boston, Mass. (36). 1896. **A**

Lowell, Russell C., English High School, Providence, R. I. (51). **A D L**

*Lowenstein, Arthur, 6030 St. Lawrence Ave., Chicago, Ill. (58). 1910. **C**

Lower, William E., M. D., 6810 Euclid Ave., Cleveland, Ohio. (58). **K**

*Lowie, Robert Harry, Ph. D., Associate Curator, American Museum of Natural History, New York, N. Y. (60). 1910. **H**

Lowman, William R., M. D., Orangeburg, S. C. (60). **K**

Lucas, Anthony F., E. M., 2300 Wyoming Ave., Washington, D. C. (50). **D E**

*Lucas, Daniel Ralph, M. D., Ph. D., 601 West 168th St., New York, N. Y. (57). 1908. **C K**

Lucius, Albert, C. E., 38 Park Row, New York, N. Y. (58). **D**

*Lucke, Charles Edward, Ph. D., Professor of Mechanical Engineering, Columbia University, New York, N. Y. (60). 1912. **D**

*Luckey, George W. A., Ph. D., Head Professor of Education, University of Nebraska, Lincoln, Nebr. (56). 1910. **H L**

*Ludlow, Clara Southmayd, Ph. D., 603, The Ethelhurst, Washington, D. C. (54). 1914. **F K**

*Ludlow, Henry Hunt, Colonel, U. S. Coast Artillery, Fort Stevens, Oregon. (54). 1906. **A D**

Ludwig, Clinton Albert, Agricultural Experiment Station, West La Fayette, Ind. (65). **G**

Luebkert, Otto, Germania Life Insurance Company, 1711 H St., N. W. Washington, D. C. (50). **G**

Luehrs, Daniel Michael, M. E., care McCreery Engineering Co., Toledo, Ohio. (58). **D**

*Luginbill, Philip, University of South Carolina, Columbia, S. C. (62). 1914. **F**

*Lukens, Herman Tyson, Ph. D., 330 Webster Ave., Chicago, Ill. (55). 1911. **E L**

Lull, H. G., 5643 20th Ave. S. E., Seattle, Wash. (66).

Lum, Miss Elizabeth S., Elizabeth, N. J. (57).

Lundholm, Eric M., M. D., 677 University Ave., St. Paul, Minn. (58). **K**

*Lundin, Carl Axel Robert, care Alvan Clark and Sons Corporation, Cambridgeport, Mass. (47). 1906. **A**

*Luquer, Lea McIlvane, Ph. D., Adjunct Professor of Mineralogy, Columbia University, New York, N. Y. (49). 1902. **E**

*Lusk, Graham, Sc. D., Ph. D., Professor of Physiology, Cornell University Medical College, New York, N. Y. (54). 1906. **K**

Lussky, Herbert Otto, University of Chicago, Chicago, Ill. (64). **K**

Luther, Miss Agnes Vinton, 151 Scotland Road, South Orange, N. J. (47). **E**

*Lutman, Benjamin Franklin, Ph. D., Professor of Plant Pathology, University of Vermont, Burlington, Vt. (60). 1911. **G**

Lutz, Anne M., Cytologist, Station for Experimental Evolution, Cold Spring Harbor, Long Island, N. Y. (54). **F**

*Lutz, Frank Eugene, Ph. D., American Museum of Natural History, New York, N. Y. (53). 1909. **F**

*Lyford, Hon. Edwin F., Springfield, Mass. (33). 1896. **B C H**

*Lyle, David Alexander, Lieut.-Colonel, U. S. A., care Mr. Frank Berry, Depot Quartermaster's Office, Philadelphia, Pa. (28). 1880. **D**

Lyman, Arthur Theodore, P. O. Box 1717, Boston, Mass. (60).

*LYMAN, BENJAMIN SMITH, E. M., 708 Locust St., Philadelphia, Pa. (15). 1905. **E**

Lyman, Chester Wolcott, International Paper Co., 30 Broad St., New York, N. Y. (50). **I**

*Lyman, Elmer A., Professor of Mathematics, Michigan State Normal College, Ypsilanti, Mich. (53). 1906. **A**

*Lyman, George Richard, Ph. D., Federal Horticultural Board, Washington, D. C. (57). 1909. **G**

Lyman, James A., Claremont, Cal. (60). **C**

Lyman, John F., Ph. D., Associate Professor of Agricultural Chemistry, Ohio State University, Columbus, Ohio. (62). **C G**

Lyman, Rufus Ashley, M. D., University of Nebraska, Lincoln, Nebr. (60). **K**

*LYMAN, THEODORE, Ph. D., Assistant Professor of Physics, Jefferson Physical Laboratory, Harvard University, Cambridge, Mass. (55). 1907. **D**

Lynch, Ella Frances, 4317 Ventnor Ave., Atlantic City, N. J. (65). **A**

Lynch, William H., Springfield State Normal School, Springfield, Mo. (52). **I**

Lynde, Carleton J., Ph. D., Macdonald College, Quebec, Canada. (62).

Lyon, Darwin O., M. D., 111 Crary Ave., Mt. Vernon, N. Y. (63). **C H I K**

*Lyon, Elias Potter, Ph. D., Dean, School of Medicine, University of Minnesota, Minneapolis, Minn. (58). 1911. **F K L**

*Lyon, George John, C. E., Assistant Professor of Civil Engineering, Union College, Schenectady, N. Y. (64). 1915. **D**

*Lyon, Harold Lloyd, Ph. D., H. S. P. Experiment Station, Honolulu, Hawaii. (60). 1911. **K**

Lyon, Leon Elie, C. E., U. S. Engineer Office, Norfolk, Va. (61). **D**

*Lyon, Marcus Ward, Jr., M. D., Ph. D., 48 V St. N. W., Washington, D. C. (53). 1911. **F K**

Lyon, Ralph Albert, Hawaiian Fertilizer Co., Honolulu, Hawaii. (58). **C**

Lyon, Scott Cary, Tulane University, New Orleans, La. (55). **B C**

*Lyon, Thomas Lyttleton, Ph. D., Professor of Soil Technology, Cornell University, Ithaca, N. Y. (56). 1911. **C**

*Lyons, Albert Brown, M. D., 102 Alger St., Detroit, Mich. (50). 1911. **C G**

*Lyons, Robert Edward, Ph. D., Professor of Chemistry, University of Indiana, Bloomington, Ind. (51). 1906. **C**

*Lythgoe, Hermann C., 501 State House, Boston, Mass. (58). 1911. **C**

Maas, Philip, Professor of Chemistry, Central High School, Philadelphia, Pa. (60). **C**

Mabee, Professor Fred C., Chemical Laboratory, Shanghai Baptist College. Shanghai, China. (61). **C**

*Mabery, Charles Frederic, Sc. D., Professor of Chemistry, Case School of Applied Science, Cleveland, Ohio. (29). 1881. **C**

*McAdam, Dunlap Jamison, Ph. D., Professor of Engineering, Washington and Jefferson College, Washington, Pa. (51). 1915. **D**

*McAfee, Almer McDuffie, Chemists Club, New York, N. Y. (63). 1915. **C**

*McAllister, Cloyd North, Ph. D., Berea, Ky. (52). 1906. **H I K**

McAllister, Frederick, Ph. D., 3205 West Ave., Austin, Texas. (62). **G**

McAllister, W. B., 2165 East 31st St., Cleveland, Ohio. (63).

*MacArthur, John Wood, Zoology Building, University of Chicago, Chicago, Ill. (65). 1915. **F**

*McArthur, Lewis L., M. D., 4724 Drexel Boulevard, Chicago, Ill. (51). 1911. **K**

*McAtee, Waldo Lee, U. S. Department of Agriculture, Washington, D. C. (54). 1906. **F**

McBean, Duncan D., 1107–11 Park Row Building, New York, N. Y. (58). **D**

Macbeth, George Alexander, 717 Amberson Ave., Pittsburgh, Pa. (50). **C**

McBeth, Ira Guy, Citrus Experiment Station, Riverside, Cal. (62). **G**

*McBride, James Harvey, M. D., Pasadena, Cal. (51). 1909. **K**

*MacBride, Thomas Huston, Ph. D., President, State University of Iowa, Iowa City, Iowa. (38). 1890. **E G**

McBryde, Charles Neil, M. D., Ph. D., Bureau of Animal Industry, U. S. Department of Agriculture, Washington, D. C. (62). **C K**

McBryde, James Bolton, Professor of Chemistry, Virginia Polytechnic Institute, Blacksburg, Va. (63). **C**

McCall, Arthur Gillett, Professor of Agronomy, Ohio State University, Columbus, Ohio. (62). **G M**

McCalla, Albert, Ph. D., 2316 Calumet Ave., Chicago, Ill. (58). **A B G**

McCallie, James Park, Ph. D., Highland Park Station, Chattanooga, Tenn. (57). **A**

*McCallie, Samuel Washington, State Geologist of Georgia, Atlanta, Ga. (62). 1913. **E**

McCallum, William Burnett, Continental Rubber Co., San Diego, Cal. (66). **G**

*MacCallum, William George, M. D., 981 Madison Ave., New York, N. Y. (60). 1910. **K**

McCampbell, Eugene Franklin, M. D., Ph. D., Professor of Bacteriology, Ohio State University, Columbus, Ohio. (63). **K**

McCarthy, Edward Florence, State Ranger School, Wanakena, N. Y. (64). **G**

McCarthy, Maurice Lawrence, 30 Maple St., Haverhill, Mass. (58). **C D**

*McCaskey, Hiram Dryer, U. S. Geological Survey, Washington, D. C. (55). 1907. **E**

McCastline, William H., M. D., Department of Physical Education, Teachers College, Columbia University, New York, N. Y. (56). **K**

*MacCaughey, Vaughan, Professor of Botany, College of Hawaii, Honolulu, Hawaii. (58). 1911. **H I L**

*McCaughey, William J., 42 Channing St., Washington, D. C. (60). 1911. **C**

McCauley, George Vest, Ph. D., Laboratory of Physics, Northwestern University, Evanston, Ill. (58). **B**

*McCaustland, Elmer James, Dean, Engineering Faculty, University of Missouri, Columbia, Mo. (52). 1905. **D L**

*McCay, Le Roy Wiley, Sc. D., Professor of Inorganic Chemistry, Princeton University, Princeton, N. J. (57). 1908. **C**

*McClellan, John Hancock, Ph. D., 1417 Peoples Gas Building, Chicago, Ill. (58). 1910. **F K**

McClelland, Lefferts Augustine, M. D., 78 McDonough St., Brooklyn, N. Y. (63). **K**

McClelland, Silas E., M. D., Decatur, Ill. (60). **K**

McClenahan, Francis Mitchell, Professor of Chemistry, Maryville College, Maryville, Tenn. (62). **C**

*McClendon, Jesse F., Ph. D., University of Minnesota Medical School, Minneapolis, Minn. (57). 1910. **F K**

*McClintock, Emory, Ph. D., LL. D., Bay Head, N. J. (43). 1895. **A**

McClintock, James Albertine, 110 Holmes St., Lansing, Mich. (65).

*McClintock, John T., M. D., 230 Fairchild St., Iowa City, Iowa. (58). 1911. **K**

*McClung, Clarence Erwin, Ph. D., Professor of Zoology, University of Pennsylvania, Philadelphia, Pa. (52). 1908. **F**

*McClung, Robert Kenning, Sc. D., Professor of Physics, University of Manitoba, Winnipeg, Canada. (56). 1908. **B**

McClure, James, Department of Physics, Vanderbilt University, Nashville, Tenn. (62). **B**

*McCollum, Elmer Verner, Ph. D., Assistant Professor of Agricultural Chemistry, University of Wisconsin, Madison, Wis. (58). 1911. **C**

*McComas, Henry Clay, Jr., Ph. D., Assistant Professor of Psychology, Princeton University, Princeton, N. J. (63). 1914. **H**

*McConnell, Guthrie, M. D., 347 Llandrillo Road, Cynwyd, Pa. (58). 1909. **K**

McConnell, Prof. Wilbur Ross, U. S. Bureau of Entomology, Hagerstown, Md. (57). **F**

McCook, John B., M. D., 396 Main St., Hartford, Conn. (60). **K**

McCool, M. M., Ph. D., Assistant Professor of Soils, Michigan Agricultural College, East Lansing, Mich. (66). **M**

McCord, Carey Pratt, 472 Penn. Ave., Detroit, Mich. (63).

McCorkle, Prof. Walker Ellsworth, Cornell University Medical College, Ithaca, N. Y. (64). **F**

McCormack, Joseph Nathaniel, M. D., LL. D., Bowling Green, Ky. (60). **K**

McCormick, Miss Florence Anna, Agricultural Experiment Station, Lincoln, Nebr. (55). **E**

McCormick, Harold Fowler, Suite 1212, 30 North La Salle St., Chicago, Ill. (58).

McCormick, Rev. Samuel Black, D. D., LL. D., Chancellor, University of Pittsburgh, Pittsburgh, Pa. (54).

*McCourt, Walter Edward, Head, Department of Geology, Washington University, St. Louis, Mo. (57). 1911. **E**

McCoy, William Merrill, M. D., Wenatchee, Wash. (58). **K**

*McCracken, Isabel, Ph. D., Stanford University, Cal. (54). 1914. **F K**

*MacCracken, John Henry, Ph. D., LL. D., President, Vassar College, Poughkeepsie, N. Y. (52). 1907. **I**

McCracken, William, Ph. D., State Normal School, Kalamazoo, Mich. (60). **C**

*McCray, Arthur Howard, Bureau of Entomology, U. S. Department of Agriculture, Washington, D. C. (62). 1914. **F**

McCrea, Prof. Nelson G., Columbia University, New York, N. Y. (65).

*McCreath, Andrew S., E. M., P. O. Box 466, Harrisburg, Pa. (33). 1889. **C E**

McCue, Charles Andrew, Professor of Horticulture, Agricultural Experiment Station, Newark, Del. (62). **G**

McCulloch, Miss Lucia, U. S. Department of Agriculture, Washington, D. C. (65). **M**

*McCullough, Ernest, C. E., 1302 Monadnock Block, Chicago, Ill. (61). 1911. **D**

McCullough, John Griffith, LL. D., Hall Farm, North Bennington, Vt. (57).

McCurdy, Arthur W., 320 Pemberton Building, Victoria, B. C., Canada. (52). **B C D E**

*McCurdy, Charles William, Sc. D., Ph. D., Weston, W. Va. (35). 1895. **C K**

*MacCurdy, George Grant, Ph. D., Yale University Museum, New Haven, Conn. (48). 1900. **H**

*MacCurdy, Hansford M., Ph. D., Professor of Biology, Alma College, Alma, Mich. (51). 1911. **F G**

McCurdy, Irwin Pounds, D. D., LL. D., 538 So. 49th St., Philadelphia, Pa. (61). **H I L**

*McCutcheon, Thomas Potter, Jr., Ph. D., Assistant Professor of Chemistry, University of Pennsylvania, Philadelphia, Pa. (58). 1911. **C**

McDanell, Louise, Assistant Professor of Home Economics, University Farm, St. Paul, Minn. (65). **C I**

*McDaniel, Allen Boyer, C. E., Professor of Civil Engineering, University of Illinois, Urbana, Ill. (58). 1914. **A D**

McDermott, Rev. P. A., Duquesne University of the Holy Ghost, Bluff and Cooper Sts., Pittsburgh, Pa. (51). **E H I**

*MacDonald, Donald Francis, LL. D., U. S. Geological Survey, Washington, D. C. (63). 1914. **E**

McDonald, Ellice, M. D., 174 W. 58th St., New York, N. Y. (60). **K**

McDonald, Hugh N., M. D., 329 Central Ave., Minneapolis, Minn. (60). **K**

McDonald, James Daley, University of California, Berkeley, Cal. (65). **F**

*MacDonald, Margaret Baxter, Ph. D., Assistant Professor of Agricultural Chemistry, Pennsylvania State College, State College, Pa. (58). 1911. **C**

McDonald, S. P., President, First National Bank, Sylacauga, Ala. (65).

Macdonald, Prof. Stewart L., Fort Collins, Colo. (62). **A**

Macdonald, Thomas L., M. D., 1501 Massachusetts Ave. N. W., Washington, D. C. (62). **K**

*McDonnell, Curtis C., Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (51). 1915. **C**

*McDonnell, Henry Barnett, M. D., Professor of Chemistry, Maryland Agricultural College, College Park, Md. (40). 1893. **C**

McDonough, James Albert, C. E., U. S. Engineer Office, Wheeling, W. Va. (60). **D**

*MacDougal, Daniel Trembly, Ph. D., LL. D., Desert Botanical Laboratory, Tucson, Ariz. (44). 1897. **G**

*McDougall, Alexander Hiram, Principal, Ottawa Collegiate Institute, Ottawa, Canada. (58). 1909. **A L**

MacDougall, George R., 112 Wall St., New York, N. Y. (49).

*MacDougall, Robert, Ph. D., Professor of Psychology, New York University, New York, N. Y. (49). 1901. **H K L**

McDowell, Alexander H., 38 Hopkins St., Woodbury, N. J. (58). **C**

McDowell, Edward Campbell, Room 211, Clyde Block, Hamilton, Can. (54). **D**

*McDowell, Louise Sherwood, Professor of Physics, Wellesley College, Wellesley, Mass. (63). 1915. **B**

McDuffie, Duncan, 156 The Tunnel Road, Berkeley, Cal. (66).

*McElfresh, William Edward, Ph. D., Professor of Physics, Williams College, Williamstown, Mass. (53). 1906. **B**

McElroy, Cecelia Baldwin, P. O. Box 2054, Philadelphia, Pa. (66).

McElroy, James B., M. D., Porter Building, Memphis, Tenn. (60). **K**

McEwen, Ernest L., M. D., 1703 Chicago Ave., Evanston, Ill. (60). **K**

*McEwen, George F., La Jolla, Cal. (65). 1915. **B**

McFadden, Thomas Gilbert, Department of Physics, Jersey City High School, Jersey City, N. J. (48). **B**

McFarland, Boynton Wells, Ph. D., Observatory Place, New Haven, Conn. (57). **C D L**

*McFarland, David Ford, Ph. D., Assistant Professor of Applied Chemistry, University of Illinois, Urbana, Ill. (58). 1910. **C**

*MacFarland, Frank Mace, Ph. D., Professor of Histology, Leland Stanford Junior University, Stanford University, Cal. (56). 1910. **F K**

*Macfarlane, Hon. James R., Judge of Court of Common Pleas, No. 1, Court House, Pittsburgh, Pa. (50). 1906. **E**

McFarlane, Miss Jennie, 35 Jennings Ave., Toronto, Can. (64). **G**

*Macfarlane, John Muirhead, Sc. D., Professor of Botany, University of Pennsylvania, Philadelphia, Pa. (41). 1899. **G**

McGee, Miss Emma R., Farley, Iowa. (33). **G**

McGee, John Bernard, M. D., 8117 Woodland Ave., Cleveland, Ohio. (51). **H K**

McGiffert, John Rutherford, M. E., care Clyde Iron Works, Duluth, Minn. (60). **D**

*McGill, Anthony, LL. D., 317 Queen St., Ottawa, Canada. (60). 1911. **C**

McGill, Caroline, M. D., Assistant Professor of Anatomy, Murray Hospital, Butte, Mont. (64). **K**

McGill, John A., M. D., 4938 Drexel Boulevard, Chicago, Ill. (58). **K**

*McGill, John Thomas, Ph. D., Professor of Organic Chemistry, Vanderbilt University, Nashville, Tenn. (36). 1888. **C**

*MacGillivray, Alexander Dyer, Ph. D., Associate Professor of Systematic Entomology, University of Illinois, Urbana, Ill. (58). 1913. **F**

McGlone, Bartgis, Ph. D., College of Physicians and Surgeons, Baltimore, Md. (58). **F**

*McGregor, James Howard, Ph.D., Associate Professor of Zoology, Columbia University, New York, N. Y. (52). 1905. **F**

*McGregory, Joseph Frank, Sc. D., Professor of Chemistry, Colgate University, Hamilton, N. Y. (35). 1892. **C**

McGrew, William Raymond, M. D., Stuart, Iowa. (60). **K**

McGuigan, Hugh, M. D., Ph. D., Northwestern University Medical School, Chicago, Ill. (58). **K**

*McHargue, James Spencer, Assistant Professor of Chemistry, Kentucky Agricultural Experiment Station, Lexington, Ky. (60). 1915. **C**

*McHatton, Henry, M. D., 335 College St., Macon, Ga. (52). 1909. **K**

McHatton, Thomas Hubbard, Sc. D., Adjunct Professor of Horticulture, University of Georgia, Athens, Ga. (58). **G L**

McHenry, Ralph F., M. D., Heilwood, Pa. (60). **K**

*McIndoo, Norman Eugene, Bureau of Entomology, U. S. Department of Agriculture, Washington, D. C. (62). 1914. **F**

*McInnes, William, Geological Survey of Canada, Ottawa, Canada. (60). 1910. **E**

McIntire, Charles, M. D., 52 North 4th St., Easton, Pa. (60). **K**

McIntire, Ralph Davis, Professor of Mathematics and Astronomy, Central College, Pella, Iowa. (63). **A**

MacIntyre, Miss Lucy, 303 West 74th St., New York, N. Y. (49).

Mack, J. Lathrop, Rock Mart, Ga. (60). **C**

Mack, Miss Margaret E., University of Nevada, Reno, Nevada. (66).

Mackall, Colin Mackenzie, Professor of Chemistry, University of the South, Sewanee, Tenn. (62). **C**

*MacKay, Alexander Howard, LL. D., Superintendent of Education for Nova Scotia, Halifax, Nova Scotia. (57). 1914. **F G H I K L**

*Mackay, G. M. J., Research Laboratory, General Electric Co., Schenectady, N. Y. (63). 1915. **D**

McKay, John S., Ph. D., Packer Collegiate Institute, Brooklyn, N. Y. (52).

MacKay, Marion Bertice, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (65). **F**

MacKay, Miss Minnette, 670 King St., Santa Rosa, Cal. (65).

*McKeag, Anna Jane, Ph. D., LL. D., President, Wilson College, Chambersburg, Pa. (60). 1910. **L**

McKee, Edward Sydney, M. D., 2132 Sinton Ave., W. H., Cincinnati, Ohio. (60). **K**

McKee, Garnet W., President, Eclipse Fuel Eng. Co., Rockford, Ill. (58). **C**

*McKee, Ralph Harper, Ph. D., Professor of Chemistry, University of Maine, Orono, Me. (53). 1909. **C**

McKee, Thomas H., M. D., 159 Cleveland Ave., Buffalo, N. Y. (60). **K**

*McKeehan, Louis Williams, Assistant in Physics, University of Minnesota, Minneapolis, Minn. (60). 1911. **B**

*McKellar, Peter, 403 John St., Fort William, Ontario, Canada. (56). 1909. **A D E**

McKelvey, James Percy, M. D., 519 North Highland Ave., Pittsburgh, Pa. (58). **K**

McKelvey, John Jay, 84 William St., New York, N. Y. (57). **B I**

*McKelvy, Ernest Christian, Bureau of Standards, Washington, D. C. (58). 1910. **C**

*McKelway, Alexander Jeffrey, D. D., 1114 Century Building, Atlanta, Ga. (55). 1907. **H I L**

*McKenney, Randolph Evans Bender, Ph. D., Cosmos Club, Washington, D. C. (51). 1903. **C G I K**

*Mackenzie, A. Stanley, Ph. D., President, Dalhousie University, Halifax, Nova Scotia. (60). 1911. **B**

MacKenzie, John J., Professor of Pathology and Bacteriology, University of Toronto, Toronto, Canada. (60). **C K**

Mackenzie, John, M. E., 415 East 16th St., Minneapolis, Minn. (62). **B**

McKenzie, John H., Rector, Howe School, Howe, Ind. (58). **H L**

*Mackenzie, Kenneth Gerard, care Texas Co., Bayonne, N. J. (60). 1911. **C**

*Mackenzie, Kenneth Kent, 139 North Walnut St., East Orange, N. J. (57). 1911. **G**

MacKenzie, Marion, Ph. D., Professor of Biology, Temple University, Philadelphia, Pa. (65). **F**

McKenzie, R. Monroe, Ph. D., Professor of Chemistry and Physics, Parsons College, Fairfield, Iowa. (58). **B C D E**

Mackie, W. W., 1030 Van Nuys Building, Los Angeles, Cal. (66). **M**

McKim, W. Duncan, M. D., 1701 18th St., Washington, D. C. (62). **K**

McKinley, William Brown, M. C., Champaign, Ill. (62).

*McKinney, Thomas Emery, Ph. D., Professor of Mathematics and Astronomy, University of South Dakota, Vermilion, S. D. (50). 1906. **A L**

*Mackintosh, Roger Sherman, Agricultural Extension Division, University Farm, St. Paul, Minn. •(53). 1911. **G L**

McLaine, Leonard Septimus, Entomological Branch, Department of Agriculture, Ottawa, Canada. (63). **F**

*McLaren, John Dice, M. D., Professor of Physiology, State University Medical School, Portland, Oregon. (60). 1911. **K**

*MacLaren, Malcolm, E. E., Professor of Electrical Engineering, Princeton University, Princeton, N. J. (63). 1915. **D**

McLaughlin, Thomas N., M. D., 1226 N St. N. W., Washington, D. C. (52). **H K**

McLaury, Howard Lincoln, Professor of Mathematics, State School of Mines, Rapid City, S. D. (50). **A**

*Maclay, James, Ph. D., Professor of Mathematics, Columbia University, New York, N. Y. (52). 1907. **A**

McLean, Charlotte F., Ph. D., College of Montana, Deer Lodge, Mont. (54).

MacLean, George, 220 West 42d St., New York, N. Y. (57). **B C H I K L**

*MacLean, George Edwin, Ph. D., LL. D., 1511 Albemarle Road, Brooklyn, N. Y. (52). 1904. **L**

*McLendon, Clarence Albertis, South Carolina Agricultural Experiment Station, Clemson College, S. C. (60). 1911. **G**

*McLennan, John Cunningham, Ph. D., Professor of Physics, University of Toronto, Toronto, Canada. (51). 1903. **B**

*Macleod, John James Rickard, Professor of Physiology, Western Reserve Medical College, Cleveland, Ohio. (55). 1907. **K**

*Macloskie, George, Sc. D., LL. D., Emeritus Professor of Biology, Princeton University, Princeton, N. J. (25). 1882. **F G**

McLure, Norman R., C. E., Phoenix Iron Co., Phoenixville, Pa. (60). **D**

*McMahon, James, Professor of Mathematics, Cornell University, Ithaca, N. Y. (36). 1891. **A B**

McMichael, Orville Winthrop, M. D., 4 West Ontario St., Chicago, Ill. (60). **K**

*MacMillan, Daniel P., M. D., Ph. D., Director, Department of Child Study and Pedagogic Instruction, care Board of Education, Tribune Building, Chicago, Ill. (57). 1913. **H L**

MacMillan, David Kent, Office of State Entomologist, Urbana, Ill. (60). **F**

MacMillan, Howard Gove, Greeley, Colo. (65).

McMillan, S. A., Assistant Professor of Agronomy, A. and M. College of Texas, College Station, Texas. (62). **M**

*MacMillan, William Duncan, Ph. D., University of Chicago, Chicago, Ill. (58). 1910. **A**

*McMillin, Emerson, 40 Wall St., New York, N. Y. (37). 1909. **E**

McMinn, Amelia, State Normal School, Milwaukee, Wis. (60). **A**

*McMurphy, James, Stanford University, Cal. (65). 1915. **G**

McMurran, Stockton Mosby, P. O. Box 412, Thomasville, Ga. (62). **G**

*McMurrich, James Playfair, Ph. D., Professor of Anatomy, University of Toronto, Toronto, Canada. (58). 1909. **F K**

*McNair, Fred Walter, Sc. D., President, Michigan College of Mines, Houghton, Mich. (51). 1902. **B D**

*McNairn, William Harvey, McMaster University, Toronto, Canada. (63). 1915. **E**

McNally, James, 538 South Clark St., Chicago, Ill. (58). **E L**

*MacNeal, Ward J., M. D., Ph. D., New York Post-Graduate Medical School, New York, N. Y. (58). 1913. **F G K**

*McNeil, Hiram Colver, Ph. D., 1210 Decatur St., N. W., Washington, D. C. (51). 1911. **B C E**

MacNeil, Prof. Wilbur James, 1831 Punahou St., Honolulu, Hawaii. (60).

McNeill, Dr. Jerome, President, Florida State College for Women, Tallahassee, Fla. (62). **F**

*McNeill, Malcolm, Ph. D., Professor of Mathematics and Astronomy, Lake Forest University, Lake Forest, Ill. (32). 1885. **A**

*MacNider, William de Berniere, M. D., Professor of Pharmacology, University of North Carolina, Chapel Hill, N. C. (61). 1911. **K**

McNitt, Robert Joseph, E. E., care Roessler and Hasslacher Chemical Co., Perth Amboy, N. J. (60). **D**

McNulty, George Washington, C. E., 350 West 85th St., New York, N. Y. (51). **D**

*MacNutt, Barry, Associate Professor of Physics, Lehigh University, South Bethlehem, Pa. (47). 1900. **B**

*Macomber, George Stanley, E. E., Room 200, 15 Dey St., New York, N. Y. (60). 1915. **D**

McPeek, Clayton, M. D., College of Medicine, Ohio State University, Columbus, Ohio. (63). **K**

McPherson, Logan Grant, The Players Club, 16 Gramercy Park, New York, N. Y. (62).

*McPherson, William, Sc. D., Ph. D., Professor of Chemistry, Ohio State University, Columbus, Ohio. (45). 1898. **C**

*McRae, Austin Lee, Sc. D., Professor of Physics, School of Mines, Rolla, Mo. (39). 1891. **B D**

*MacVannel, John Angus, Professor of Philosophy and Education, Columbia University, New York, N. Y. (52). 1905. **H I L**

McVey, Frank LeRond, Ph. D., President, University of North Dakota, University, N. D. (60). **L**

McVicker, William B., President, W. B. McVicker Co., 115 Broadway, New York, N. Y. (57). **C D I**

*McWhorter, John English, M. D., 437 West 59th St., New York, N. Y. (62). 1913. **K**

McWilliams, Rev. T. S., 7509 Euclid Ave., Cleveland, Ohio. (63).

*Macy, Valentine Everit, 68 Broad St., New York, N. Y. (49). 1915. **I**

Madeira, Percy C., Jr., 934 Land Title Building, Philadelphia, Pa. (65).

*Maddrill, James Davis, Ph. D., 1 Edwards St., Hartford, Conn. (58). 1914. **A B I**

Madison, Harold Lester, Curator, Park Museum, Providence, R. I. (55). **F L**

Magee, Mrs. Ella W., 5810 Harper Avenue, Chicago, Ill. (61).

Mager, F. Robert, Armour Villa Park, Yonkers, N. Y. (57).

Magers, S. D., Professor of Biology, State Normal School, Marquette, Mich. (58). **F**

*Magie, William Francis, Ph. D., Professor of Physics, Princeton University, Princeton, N. J. (35). 1887. **B**

Maglott, Mrs. Eva Sisson, Professor of Mathematics, Ohio Northern University, Ada, Ohio. (58). **A D**

*Magnusson, John Peter, Ph. D., Professor of Chemistry and Physics, Augustana College, Rock Island, Ill. (57). 1911. **B C**

*Magruder, Dr. Egbert W., State Chemist, Virginia Department of Agriculture and Immigration, Richmond, Va. (51). 1906. **C**

Magruder, John H., 1843 S St. N. W., Washington, D. C. (63).

*Magruder, William T., Professor of Mechanical Engineering, Ohio State University, Columbus, Ohio. (37). 1899. **D L**

Mahoney, James Owen, 1900 Crockett St., Dallas, Tex. (58). **A**

Mahoney, Stephen A., M. D., 628 Dwight St., Holyoke, Mass. (51). **K**

Maignen, Prosper Auguste, E. M., 1311 Arch St., Philadelphia, Pa. (54). **D**

Mailliard, Joseph, 1815 Vallejo St., San Francisco, Cal. (65).

Main, William, Engineer and Chemist, Piermont, N. Y. (58). **B C D**

Maines, Eugene L., Phar. D., 195 Exchange St., Rochester, N. Y. (63). **K**

*Major, David R., Ph. D., Professor of Education, Ohio State University, Columbus, Ohio. (51). 1906. **H I L**

*Mall, Franklin Payne, M. D., Sc. D., LL. D., Professor of Anatomy, Johns Hopkins University, Baltimore, Md. (57). 1908. **F H K**

Mallinckrodt, Edward, 3600 No. 2d St., St. Louis, Mo. (29). **C**

*MALLINCKRODT, EDWARD, JR., 16 Westmoreland Place, St. Louis, Mo. (53). 1909. **C D**

*Mallory, Frank Burr, M. D., Associate Professor of Pathology, Harvard Medical School, Boston, Mass. (54). 1906. **F G K**

*Malone, Edward Fall, M. D., Assistant Professor of Anatomy, University of Cincinnati, Cincinnati, Ohio. (62). 1913. **K**

*Maltby, Margaret E., Ph. D., Adjunct Professor of Physics, Barnard College, New York, N. Y. (46). 1898. **B**

Mammen, Ernest, M. D., Bloomington, Ill. (58). **F K**

*Mandel, John Alfred, Sc. D., Professor of Chemistry, Bellevue Hospital Medical College, New York, N. Y. (57). 1908. **C K**

Maneval, Willis Edgar, Ph. D., University, Va. (60). **G**

Mangan, Daniel C., M. D., 95 Park Ave., Brooklyn, N. Y. (50). **F K**

Manierre, Charles E., 352 West End Ave., New York, N. Y. (57).

Manly, John Matthews, Ph. D., Professor of English, University of Chicago, Chicago, Ill. (58).

*Mann, Albert, Ph. D., U. S. Department of Agriculture, Washington, D. C. (43). 1911. **G**

*MANN, BENJAMIN PICKMAN, 1918 Sunderland Place, Washington, D. C. (22). 1874. **F G I**

*Mann, Charles Riborg, Ph. D., Carnegie Foundation, 576 5th Ave., New York, N. Y. (57). 1908. **B L**

Mann, Edward Loring, Mannville, Florida. (65).

*Mann, Gustav, M. D., Professor of Physiology, Tulane University, New Orleans, La. (60). 1911. **K**

Manning, Charles Henry, Chief Engineer, U. S. Navy, Retired, Amoskeag Bank Building, Manchester, N. H. (35). **D**

*Manning, Henry Parker, Ph. D., Assistant Professor of Pure Mathematics, Brown University, Providence, R. I. (55). 1907. **A**

Manning, J. Woodward, Vine Place, Reading, Mass. (47). **G**

*Manns, Thomas Franklin, Ph. D., Professor of Plant Pathology, Delaware College, Newark, Del. (58). 1911. **G**

Mansbach, E., 1292 Madison Ave., New York, N. Y. (57).

*Mansfield, George Rogers, Ph. D., U. S. Geological Survey, Washington, D. C. (57). 1911. **E**

*Manson, Edmund Sewall, Jr., Associate Professor of Astronomy, Ohio State University, Columbus, Ohio. (62). 1911. **A**

*Manson, Marsden, C. E., Ph. D., Commissioner of Public Works, 848 Mills Building, San Francisco, Cal. (51). 1911. **D E**

*Manwaring, Wilfred Hamilton, M. D., Professor of Bacteriology and Immunity, Leland Stanford Junior University, Stanford University, Cal. (55). 1908. **K**

Manz, Louis C., M. E., City Hall, Atlantic City, N. J. (63). **D**

*Mapes, Charles Victor, 143 Liberty St., New York, N. Y. (37). 1911. **C**

Maphis, Charles Gilmore, Professor of Secondary Education, University of Virginia, Charlottesville, Va. (65). **L**

Marble, J. Russel, Worcester, Mass. (31). **C E**

MARBLE, MANTON, Bedford, N. Y. (36).

*Marckworth, Otto Stanley, Director, Ohio Testing Laboratory, Columbus, Ohio. (57). 1911. **B C**

Marcus, Alexander, Department of Physics, College of the City of New York, N. Y. (66). **B**

Mark, Clara Gould, Department of Geology, Ohio State University, Columbus, Ohio. (63). **E G**

*Mark, Edgar Huston, M. D., 626 Lathrop Building, Kansas City, Mo. (39). 1893. **B L**

*Mark, Edward Laurens, Ph. D., LL. D., Director, Zoological Laboratory, Harvard University, Cambridge, Mass. (50). 1901. **F K**

Markham, George Dickson, 4961 Berlin Ave., St. Louis, Mo. (50).

Markle, John, E. M., President, G. B. Markle Co., Jeddo, Pa. (57). **D**

Markoe, Mrs. John, 1630 Locust St., Philadelphia, Pa. (65).

*Marks, Lionel Simeon, Professor of Mechanical Engineering, Harvard University, Cambridge, Mass. (60). 1915. **D**

Marks, Louis B., E. E., 103 Park Ave., New York, N. Y. (50). **D**

Marks, Miss Lucy Ballard, 37 Fifth Ave., New York, N. Y. (57).

Marlatt, Miss Abby L., University of Wisconsin, Madison, Wis. (48). **C I K L**

*Marlatt, Charles Lester, U. S. Department of Agriculture, Washington, D. C. (40). 1895. **F**

MARLING, ALFRED ERSKINE, 35 West 47th St., New York, N. Y. (57).

Marlow, Frank William, M. D., 200 Highland St., Syracuse, N. Y. (50). **H K**

MARMOR, REV. J. D., 39 West 118th St., New York, N. Y. (52). **E H K**

Marple, Charles A., 6801 Euclid Ave., Cleveland, Ohio. (39). **B**

Marquis, J. Clyde, Editor, *The Country Gentleman*, Independence Square, Philadelphia, Pa. (64). **I L**

*Marriott, Walter Ross, Department of Mathematics, Swarthmore College, Swarthmore, Pa. (57). 1910. **A**

Marschall, A. J., Madison, Wis. (60). **C**

*Marsh, Charles Dwight, Ph. D., U. S. Department of Agriculture, Washington, D. C. (34). 1893. **E F G**

Marsh, Clarence T. N., 4193 South Halstead St., Chicago, Ill. (58). **C**

Marsh, H. E., Professor of Physics, University of Redlands, Redlands, Cal. (65). **B**

*Marsh, Horace Wilmer, Pratt Institute, Brooklyn, N. Y. (60). 1915. **A**

*Marsh, Howard Daniel, Ph. D., Department of Philosophy, College of the City of New York, New York, N. Y. (58). 1911. **H**

Marsh, Mrs. Mabel Riley, College of Puget Sound, Tacoma, Wash. (66).

*Marsh, Millard C., 113 High St., Buffalo, N. Y. (54). 1915. **F**

*Marshall, Charles Edward, Ph. D., Dean, Graduate School and Professor of Microbiology, Massachusetts Agricultural College, Amherst, Mass. (60). 1911. **I K**

Marshall, Collins, M. D., 2507 Pennsylvania Ave., Washington, D. C. (60). **K**

*Marshall, Harry Taylor, M. D., Professor of Pathology, University of Virginia, Charlottesville, Va. (63). 1915. **K**

*Marshall, Henry Rutgers, Sc. D., 3 West 29th St., New York, N. Y. (57). 1911. **H**

Marshall, Horace Miller, U. S. Engineer Office, Vicksburg, Miss. (51). **D**

MARSHALL, LOUIS, 47 East 72d St., New York, N. Y. (57).

Marshall, Ruth, Ph. D., 405 Broadway, Normal, Ill. (61). **L**

*Marshall, William Stanley, Ph. D., Associate Professor of Entomology, University of Wisconsin, Madison, Wis. (63). 1915. **F**

*Marsters, Vernon Freeman, E. M., care New York and Honduras Rosario Mining Co., San Juancito, Honduras, C. A. (49). 1906. **E**

Marston, Edwin S., Florham Park, N. J. (50).

Marston, Philip L., E. M., P. O. Box 910, Tonopah, Nevada. (58). **C D**

*Martin, Artemas, Ph. D., LL. D., U. S. Coast and Geodetic Survey, Washington, D. C. (38). 1890. **A B**

Martin, Arthur W., University of Nanking, Nanking, China. (58). **C**

*Martin, Daniel Strobel, Ph. D., Charleston Museum, Charleston, S. C. (23). 1879. **E**

*Martin, Emilie Norton, Ph. D., Associate Professor of Mathematics, Mt. Holyoke College, South Hadley, Mass. (54). 1906. **A**

*Martin, Ernest G., Ph. D., Assistant Professor of Physiology, Harvard Medical School, Boston, Mass. (60). 1911. **K**

*Martin, Fernando Wood, Ph. D., College Park, Lynchburg, Va. (49). 1905. **C**

*Martin, George Curtis, Ph. D., U. S. Geological Survey, Washington, D. C. (51). 1903. **E**

Martin, George W., Agricultural Experiment Station, New Brunswick, N. J. (66). **G**

*Martin, John Nathan, Assistant Professor of Botany, Iowa State College of A. and M. Arts, Ames, Iowa. (65). 1915. **G**

*Martin, Lillien J., Ph. D., Professor of Psychology, Leland Stanford Junior University, Stanford University, Cal. (54). 1906. **H**

*Martin, Louis Adolphe, Jr., M. E., Professor of Mechanics, Stevens Institute of Technology, Hoboken, N. J. (53). 1906. **A B D L**

Martin, Samuel Albert, D. D., Professor of Mental and Moral Philosophy, Lafayette College, Easton, Pa. (66). **H**

Martin, Prof. Thomas Adams, P. O. Box 597, Commerce, Texas. (62). **A**

*Martin, Walton, M. D., 25 West 50th St., New York, N. Y. (58). 1913. **K**

Martin, William Franklin, C. E., 2428 Stuart St., Berkeley, Cal. (60). **D**

Martin, William Joseph, Ph. D., M. D., President, Davidson College, Davidson, N. C. (60). **C**

Martin, William Lyon, Augusta, Ga. (51). **G**

Marvel, Emery, M. D., 1801 Pacific Ave., Atlantic City, N. J. (60). **K**

*Marvin, Charles Frederick, Chief, U. S. Weather Bureau, Washington, D. C. (39). 1892. **B**

Marvin, H. H., 59 West Adams St., Tufts College, Mass. (63).

Maschke, Alfred S., M. D., 326 Osborne Building, Cleveland, Ohio. (63).

Mason, D. T., U. S. Forest Service, Missoula, Mont. (66). **M**

Mason, Edward Jarvis King, E. E., Suffield, Conn. (60). **D**

Mason, G. F., care H. J. Heinz Co., Pittsburgh, Pa. (65).

Mason, Herbert Warren, 200 Devonshire St., Boston, Mass. (53). **B C D**

*Mason, Max, Ph. D., Professor of Mathematical Physics, University of Wisconsin, Madison, Wis. (58). 1909. **A B**

Mason, Miss Nellie M., Teacher of Science, Abbot Academy, Andover, Mass. (50). **B C G**

Mason, Preston Walker, Purdue University, La Fayette, Ind. (63). **F**

*Mason, William Pitt, M. D., LL. D., Professor of Chemistry, Rensselaer Polytechnic Institute, Troy, N. Y. (31). 1886. **C**

*Massey, Arthur Ballard, Alabama Polytechnic Institute, Auburn, Ala. (63). 1915. **G**

*Mast, Samuel Ottmar, Ph. D., Associate Professor of Zoology, Johns Hopkins University, Baltimore, Md. (52). 1909. **F G**

Mastick, Seabury Cone, Pleasantville, N. Y. (65).

*Matas, Rudolph, M. D., Professor of Surgery, Tulane University, New Orleans, La. (50). 1906. **F H K**

Matausch, Ignaz, American Museum of Natural History, New York, N. Y. (57).

Mateer, Horace N., M. D., Ph. D., Professor of Biology, University of Wooster, Wooster, Ohio. (36). **E F K**

Matheny, William Alderman, Ph. D., Professor of Civic Biology and Botany, Ohio University, Athens, Ohio. (61). **G H**

Mather, Enoch, M. D., LL. D., 228 Gratiot Ave., Mt. Clemens, Mich. (58). **K**

Mather, Kirtley F., 5344 Woodlawn Ave.. Chicago, Ill. (63). **E**

Mather, Samuel, E. M., Western Reserve Building, Cleveland, Ohio. (63). **D**

*Mather, William Tyler, Ph. D., Professor of Physics, University of Texas, Austin, Texas. (60). 1910. **B**

*Matheson, Robert, 45 East Ave., Ithaca, N. Y. (58). 1915. **F**

Matheson, William John, 182 Front St., New York, N. Y. (54). **C I**

*Mathews, Albert Prescott, Ph. D., Professor of Physiological Chemistry, University of Chicago, Chicago, Ill. (57). 1908. **C K L**

Mathews, Clarence W., Professor of Horticulture, State University of Kentucky, Lexington, Ky. (66). **G**

Mathews, Hubert Berton, Professor of Physics, South Dakota State College of A. and M. Arts, Brookings, S. D. (58). **B**

Mathews, Miss Jane, 318 West North Ave., Pittsburgh, N. S., Pa. (60). **A**

*Mathews, John Alexander, Sc. D., Ph. D., Managing Director, Halcomb Steel Co., Syracuse, N. Y. (50). 1902. **B C D E I L**

Mathews, Miss Mary Elizabeth, 149 State St., Painesville, Ohio. (41). **G**

Mathewson, Edward Payson, 422 Hickory St., Anaconda, Mont. (57). **C D**

Matlack, Charles, 85 Berkeley St., West Newton, Mass. (27). **I**

*Matson, George Charlton, U. S. Geological Survey, Washington, D. C. (60). 1911. **E**

Matson, Ralph C., M. D., 1021 Corbett Building, Portland, Ore. (60). **K**

*Matthes, Francois Emile, U. S. Geological Survey, Washington, D. C. (52). 1909. **D E**

*Matthew, William Diller, Ph. D., American Museum of Natural History, New York, N. Y. (54). 1906. **E**

*Matthews, Albert, Hotel Oxford, Boston, Mass. (51). 1913. **H**

Matthews, Miss Elizabeth Mary, 427 14th St., Portland, Oregon. (64). **I**

*Matthews, Joseph Merritt, Ph. D., 5 Berwyn St., East Orange, N. J. (60). 1911. **C**

Matthews, Leigh Meryle, M. E., McClure, Ill. (64). **D**

*Matthews, Samuel A., Assistant Professor of Experimental Therapeutics, University of Chicago, Chicago, Ill. (58). 1909. **H**

*Mattill, Henry Albright, Ph. D., Assistant Professor of Nutrition, University of California, Berkeley, Cal. (60). 1914. **C K**

Mattison, Fitch C. E., M. D., 295 West California St., Pasadena, Cal. (51). **K**

*Mattson, John Danskin, 2017 I St., N. W., Washington, D. C. (58). 1913. **C**

*Maurer, Edward Rose, Professor of Mechanics, University of Wisconsin, Madison, Wis. (53). 1906. **D**

*Maury, Carlotta J., Ph. D., Hastings upon Hudson, N. Y. (57). 1911. **E F**

Mavor, James Watt, Ph. D., Department of Zoology, University of Wisconsin, Madison, Wis. (66). **F**

*Maxim, Hudson, Sc. D., Maxim Park, Landing, N. J. (56). 1911. **C**

*Maxon, William Ralph, U. S. National Museum, Washington, D. C. (49). 1906. **G**

*Maxwell, Samuel Steen, Ph. D., Associate Professor of Physiology, University of California, Berkeley, Cal. (65). 1915. **K**

*Mayer, Alfred Goldsborough, M. E., Sc. D., 276 Nassau St., Princeton, N. J. (47). 1900. **F**

Mayer, Edwin Charles, Department of Physics, Cornell University, Ithaca, N. Y. (60). **B**

*Maynard, Thomas Poole, Ph. D., 1321A Hurt Building, Atlanta, Ga. (61). 1911. **E**

*Mayo, Charles Horace, M. D., LL. D., Rochester, Minn. (63). 1914. **K**

*Mayo, William James, M. D., Sc. D., LL. D., 427 West College St., Rochester, Minn. (63). 1914. **K**

*Mead, Albert Davis, Sc. D., Ph. D., Professor of Biology, Brown University, Providence, R. I. (52). 1905. **F**

Mead, Charles A., 291 Essex Ave., Orange, N. J. (60). **A**

*Mead, Daniel Webster, C. E., Professor of Engineering, University of Wisconsin, Madison, Wis. (64). 1915. **D**

*Mead, George Herbert, Professor of Philosophy, University of Chicago, Chicago, Ill. (58). 1910. **L**

Mead, Marvin Hulst, 382 River Drive, Passaic, N. J. (57). **D F G**

*Mead, Warren J., Assistant Professor of Geology, University of Wisconsin, Madison, Wis. (62). 1914. **E**

Meader, Fred Marlen, M. D., State Department of Health, Albany. N. Y. (63). **K**

Meagher, James Luke, D.D. 110 East Ave., Long Island City, N. Y. (65).

Means, Charles Johnson, 29 Marlborough St., Boston, Mass. (60).

Means, James, 196 Beacon St., Boston. Mass. (47).

Mears, Brainerd, Ph. D., Assistant Professor of Chemistry, Williams College, Williamstown, Mass. (62). **C**

*MEARS, JAMES EWING, M. D., LL. D., 1535 Land Title Building, Philadelphia, Pa. (56). 1911. **I**

MECHAM, JOHN B., 1917 Harris Trust Building, 111 West Monroe St., Chicago, Ill. (62). **A E H**

*Mecklin, John M., Head, Department of Philosophy, University of Pittsburgh, Pittsburgh, Pa. (60). 1915. **H**

Medsger, Oliver Perry, 9 Columbia Ave., Arlington, N. J. (50). **G**

*Meeker, George Herbert, Ph. D., LL. D., Professor of Chemistry, Medico-Chirurgical College, Philadelphia, Pa. (57). 1911. **C L**

Meeks, William D., M. D., Massie's Mill, Va. (60). **K**

Mees, C. E. Kenneth, Sc. D., 55 Huntington Park, Rochester, N. Y. (66).

*Mees, Carl Leo, M. D., Ph. D., President, Rose Polytechnic Institute, Terre Haute, Ind. (24). 1876. **B C**

*Mehl, Maurie G., Science Hall, University of Wisconsin, Madison, Wis. (63). 1915. **E**

Meier, Henry F. A., Assistant Professor of Botany, Syracuse University, Syracuse, N. Y. (65). **G**

*Meigs, Edward B., M. D., Wistar Institute of Anatomy, Philadelphia, Pa. (53). 1914. **K**

Meigs, Katherine H., 70 Herkimer St., Brooklyn, N. Y. (61).

*Meinecke, Emilio P., Ph. D., U. S. Forest Service, San Francisco, Cal. (62). 1913. **G M**

*Melander, Axel Leonard, Ph. D., Professor of Entomology, State College of Washington, Pullman, Wash. (60). 1914. **F**

*MELCHER, ARTHUR CLARKE, 58 Bowen St., Newton Center, Mass. (58). 1911. **B C**

Melchers, Leo E., 900 Leavenworth St., Manhattan, Kansas. (65). **G**

*Melhus, Irving E., Ph. D., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (64). 1915. **G**

*Mell, Patrick Hues, Ph. D., LL. D., 165 East 10th St., Atlanta, Ga. (39). 1895. **E G**

Mellor, Alfred, President, Mellor and Rittenhouse Co., 152 West Walnut Lane, Germantown, Pa. (51).

*Mellus, E. Lindon, M. D., 12 Fuller St., Brookline, Mass. (58). 1909. **F H K**

*Meltzer, Samuel James, M. D., LL. D., Head, Department of Physiology and Pharmacology, Rockefeller Institute for Medical Research, New York, N. Y. (49). 1901. **K**

*Melville, Carey Eyster, Assistant Professor of Mathematics and Physics, Clark College, Worcester, Mass. (63). 1915. **A B**

Memminger, C. Gustavus, E. M., Lakeland, Fla. (60). **D**

*Mendel, Lafayette Benedict, Ph. D., Professor of Physiological Chemistry, Sheffield Scientific School, New Haven, Conn. (53). 1907. **C K**

*Mendelson, Walter, M. D., 159 West 74th St., New York, N. Y. (57). 1909. **K**

*Mendenhall, Charles Elwood, Ph. D., Professor of Physics, University of Wisconsin, Madison, Wis. (48). 1900. **B**

Mendenhall, E. W., Clintonville, Ohio. (63).

*MENDENHALL, THOMAS CORWIN, Sc. D., Ph. D., LL. D., 329 No. Chestnut St., Ravenna, Ohio. (20). 1874. **B**

*Mendenhall, Walter Curran, U. S. Geological Survey, Washington, D. C. (52). 1903. **D E I**

Menefee, Evalyn L., M. D., Granbury, Tex. (57). **B C I K L**

*Menge, George Albert, Ph. D., Bureau of Animal Industry, U. S. Department of Agriculture, Washington, D. C. (60). 1911. **C**

*Mengel, Prof. Levi Walter, Director, Reading Public Museum and Art Gallery, Reading, Pa. (52). 1914. **E F**

Menges, Franklin, Ph. D., 233 East Philadelphia St., York, Pa. (58). **D L**

*Menzies, Alan W. C., Ph. D., Professor of Chemistry, Princeton University, Princeton, N. J. (60). 1911. **C**

Menzies, Mrs. Alan W. C., 136 Woodland Ave., Oberlin, Ohio. (64).

Menzies, R. H., 320 California St., San Francisco, Cal. (65).

Mercer, Alfred Clifford, M. D., 324 Montgomery St., Syracuse, N.Y. (60). **K**

*Mercer, William Fairfield, Ph. D., Professor of Biology, Ohio University, Athens, Ohio. (50). 1913. **F K**

Mercur, William H., M. D., 5th Ave. and St. James St., Pittsburgh, Pa. (64). **K**

Meredith, Hugh B., M. D., Superintendent, State Hospital, Danville, Pa. (58). **K**

*Merigold, Benjamin S., Ph. D., Assistant Professor of Chemistry, Clark University, Worcester, Mass. (56). 1909. **C**

Merrell, Miss Caroline Wallace, 2950 Frankford Ave., Philadelphia, Pa. (54). **G**

Merrell, William Dayton, Ph. D., Assistant Professor of Biology, University of Rochester, Rochester, N. Y. (58). **F G L**

*Merriam, Clinton Hart, M. D., 1919 16th St., N. W., Washington, D. C. (49). 1900. **F G H**

*Merriam, Edmund Sawyer, Ph. D., Professor of Chemistry, Marietta College, Marietta, Ohio. (56). 1910. **C**

*Merriam, John Campbell, Ph. D., Professor of Paleontology, University of California, Berkeley, Cal. (52). 1905. **E F**

Merrick, E. D., 11th St., 3d to 4th Aves., New Brighton, Pa. (57).

Merrill, Burton J., M. D., Stillwater, Minn. (60). **K**

Merrill, E. K., 10 Hill Crest Court, Berkeley, Cal. (65).

Merrill, Edward O., Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (65). **C**

*Merrill, Elmer Drew, 3800 14th St., Washington, D. C. (50). 1909. **G**

*MERRILL, FREDERICK J. H., Ph. D., 631 Higgins Building, Los Angeles, Cal. (35). 1911. **A**

*Merrill, Helen Abbott, Ph. D., Associate Professor of Mathematics, Wellesley College, Wellesley, Mass. (58). 1911. **A**

*Merrill, Joseph Francis, Ph. D., Professor of Physics and Electrical Engineering, University of Utah, Salt Lake City, Utah. (50). 1908. **B D**

*Merrill, Lucius Herbert, Sc. D., Professor of Biological and Agricultural Chemistry, University of Maine, Orono, Me. (50). 1909. **C**

Merrill, Robert Hall, C. E., 70 North Allen St., Albany, N. Y. (60). **D**

MERRILL, MRS. WINIFRED EDGERTON, Ph. D., New Rochelle, N. Y. (35). **A**

*Merriman, Mansfield, Sc. D., Ph. D., LL. D., 1071 Madison Ave., New York, N. Y. (32). 1885. **A D L**

*Merritt, Ernest, Professor of Physics, Cornell University, Ithaca, N. Y. (33). 1890. **B**

*Merrow, Miss Harriet Lathrop, Professor of Botany, Rhode Island State College, Kingston, R. I. (44). 1906. **G**

Mersereau, Gail, 738 West End Ave., New York, N. Y. (60). **C**

*Mershon, Ralph Davenport, E. E., M. E., 80 Maiden Lane, New York, N. Y. (50). 1906. **D**

Mertie, John Beaver, Jr., Ph. D., U. S. Geological Survey, Washington, D. C. (63). **E**

*Merz, Albert R., Bureau of Soils, U. S. Department of Agriculture, Washington, D. C. (58). 1915. **C**

Meservey, Arthur Bond, Department of Physics, Dartmouth College, Hanover, N. H. (63). **B**

*Messenger, James Franklin, Ph. D., University of Vermont, Burlington, Vt. (52). 1905. **H L**

*Metcalf, Haven, Ph. D., U. S. Department of Agriculture, Washington, D. C. (52). 1904. **G**

*Metcalf, Maynard Mayo, Ph. D., Professor of Zoology, Oberlin College, Oberlin, Ohio. (50). 1901. **F**

*Metcalf, Wilmot Vernon, Ph. D., Assistant Professor of Physics, Fisk University, Nashville, Tenn. (50). 1911. **B C**

Metcalf, Zeno P., Professor of Zoology and Entomology, N. C. College of A. and M. Arts, West Raleigh, N. C. (64).

*Metz, Abraham Louis, M. D., Professor of Chemistry, Tulane University, New Orleans, La. (55). 1909. **C K**

*Metzler, William Henry, Ph. D., Professor of Mathematics, Syracuse University, Syracuse, N. Y. (45). 1899. **A L**

*Meyer, Adolf, M. D., LL. D., 101 Edgevale Road, Roland Park, Md. (52). 1905. **K**

Meyer, Alfred, M. D., 785 Madison Ave., New York, N. Y. (57). **K**

*Meyer, Arthur William, M. D., 1116 Ramona St., Palo Alto, Cal. (58). 1911. **F K**

Meyer, Erwin E. A. G., Ph. D., care Morgan and Wright, Detroit, Mich. (63).

*Meyer, Gustave Maurice, Ph. D., 100 Wilson Ave., Flushing, L. I., N. Y. (57). 1908. **K**

Meyer, H. Conrad, 5017 Greene St., Germantown, Philadelphia, Pa. (63). **G**

Meyer, John Franklin, Ph. D., Bureau of Standards, Washington, D. C. (51). **C**

*Meyer, Max, Ph. D., Professor of Psychology, University of Missouri, Columbia, Mo. (49). 1901. **H L**

*Meyer, William Ferdinand, Latitude Observatory, Ukiah, Cal. (65). 1915. **A**

*Meyer, Willy, M. D., Professor of Surgery, New York Post-Graduate Medical School and Hospital, New York, N. Y. (57). 1909. **K**

Meyers, Charles Emory, Associate Professor of Horticulture, Pennsylvania State College, State College, Pa. (63). **G**

Meyers, Charles H., M. D., 1556 Elm St., Cincinnati, Ohio. (60). **K**

Meyers, Ira Benton, Francis Parker School, North Halsted Station, Chicago, Ill. (58). **E L**

*Meylan, George Louis, M. D., Adjunct Professor of Physical Education, Columbia University, New York, N. Y. (53). 1907. **H K L**

Meyrowitz, Emil B., 237 5th Avenue, New York, N. Y. (57). **A B C D**

*Mezes, Sidney Edward, Ph. D., President, College of the City of New York, New York, N. Y. (50). 1901. **H I**

*Michael, Ellis LeRoy, Marine Biological Laboratory, La Jolla, Cal. (57). 1915. **F**

*Michael, Louis Guy, Torokatickaya 9, Kishinev, Russia. (58). 1911. **C**

*Michelson, Albert Abraham, Sc. D., Ph. D., LL. D., Head, Department of Physics, University of Chicago, Chicago, Ill. (26). 1879. **B**

*Michelson, Truman, Bureau of American Ethnology, Washington, D. C. (62). 1912. **H**

*Middlekauff, George Wiles, Ph. D., Bureau of Standards, Washington, D. C. (57). 1908. **B**

Middleton, Austin R., 3640 Elm Ave., Baltimore, Md. (63). **F G**

Milbrath, David Gallus, North Dakota Agricultural College, Fargo, N. D, (62). **G**

*Miles, Egbert J., Ph. D., 115 Brownell St., New Haven, Conn. (57). 1911. **A**

Miles, George F., Fairfax, Va. (54). **E G**

Miles, George W., Consulting Chemist, 29 Central St., Boston, Mass. (58). **C**

Miles, J. Walter, E. E., Westinghouse E. and M. Co., East Pittsburgh, Pa. (66). **D**

Miles, Philip B., 1265 Kensington Ave., Salt Lake City, Utah. (65).

*Milham, Willis I., Ph. D., Professor of Astronomy, Williams College, Williamstown, Mass. (47). 1905. **A B**

Militz, Mrs. Annie Rix, 1300 Grand St., Alameda, Cal. (65). **H**

Millar, Alexander M., Estacion Experimental Agricola, Tucuman, Argentina, S. A. (65). **G M**

Millar, C. Ernest, Kansas State Agricultural College, Manhattan, Kans. (66). **C M**

Millar, John M., Escanaba, Mich. (50). **E G**

*Millberry, Guy Stillman, 1043 Clayton St., San Francisco, Cal. (65). 1915.

Millen, John D., E. M., General Manager, Mt. Bischoff Tin Mining Co., Waratah, Tasmania. (60). **C D**

*Miller, Adam Marion, M. D., Long Island College Hospital, Brooklyn, N. Y. (60). 1911. **K**

Miller, Alice Cecile, 418 Mildred St., Montgomery, Ala. (65). **E H I L**

*Miller, Arthur McQuiston, Professor of Geology and Zoology, State University of Kentucky, Lexington, Ky. (45). 1898. **E F**

*Miller, Benjamin LeRoy, Ph. D., Professor of Geology, Lehigh University, South Bethlehem, Pa. (50). 1907. **E**

Miller, Charles Ransom, LL. D., 21 East 9th St., New York, N. Y. (57).

Miller, Charles Winthrop, Shawnee on Delaware, Pa. (60). **F**

Miller, D. McL., M. D., Oconomowoc, Wis. (60). **K**

*Miller, Dayton Clarence, Sc. D., Professor of Physics, Case School of Applied Science, Cleveland, Ohio. (44). 1898. **A B**

Miller, Dickinson Sergeant, Sc. D., Ph. D., 4 Lorillard Hall, Chelsea Square, New York, N. Y. (63). **H**

*Miller, Edgar C. L., M. D., University College of Medicine, Richmond Va. (58). 1911. **K**

Miller, Edgar Grim, Jr., Ph. D., 346 West 57th St., New York, N. Y. (65). **C K**

*Miller, Edwin C., Ph. D., Kansas State Agricultural College, Manhattan, Kans. (65). 1915. **G**

Miller, Mrs. Elisabeth C. T., 3738 Euclid Ave., Cleveland, Ohio. (66). **F**

MILLER, EMERSON R., Chemist, Pharmaceutical Experiment Station, University of Wisconsin, Madison, Wis. (52). **C**

Miller, Eric Rexford, Weather Bureau, Madison, Wis. (58). **A B**

Miller, Ernest Allen, 113 North Tioga St., Ithaca, N. Y. (60). **A**

Miller, F. Joseph, M. E., 1312 Bristol St., Philadelphia, Pa. (60). **G**

Miller, Frank E., M. D., 22 West 31st St., New York, N. Y. (65). **K**

*Miller, Frank Ellsworth, Ph. D., Professor of Mathematics, Otterbein University, Westerville, Ohio. (44). 1909. **A**

Miller, Fred. Anderson, 3641 Kenwood Ave., Indianapolis, Ind. (63). **G**

*Miller, Fred J., Factory Manager, Union Typewriter Co., P. O. Box 27, Center Bridge, Pa. (51). 1906. **D I**

*Miller, George Abram, Ph. D., Professor of Mathematics, University of Illinois, Urbana, Ill. (46). 1898. **A**

Miller, George J., Professor of Geography, State Normal School, Mankato, Minn. (63). **E L**

MILLER, GEORGE NORTON, M. D., 811 Madison Ave., New York, N. Y. (50). **H I K**

Miller, Henry Huntington, E. M., Apartado 95, Guanajuato, Mexico. (50). **C D E**

Miller, Henry Lanark, C. E., Casilla 21, Mendoza, Argentina, S. A. (60). **D**

Miller, Herbert C., North Pacific College, Portland, Oregon. (66).

Miller, Irving, Hillsboro, Oregon. (65).

Miller, James Shannon, Professor of Mathematics, Emory and Henry College, Emory, Va. (51). **A B**

*Miller, John Anthony, Ph. D., Professor of Mechanics and Astronomy, Swarthmore College, Swarthmore, Pa. (31). 1906. **A D**

*Miller, John Craig, M. D., Professor of Natural Science, Lincoln University, Pa. (50). 1906. **B C**

*Miller, Joseph Leggett, M. D., 5315 Greenwood Ave., Chicago, Ill. (60). 1911. **K**

*Miller, Miss Louise Klein, 2540 Prospect Ave., Cleveland, Ohio. (50). 1906. **E G I L**

*Miller, Loye Holmes, Professor of Biology, State Normal School, Los Angeles, Cal. (64). 1915. **F**

Miller, Merritt Finley, Professor of Agronomy, University of Missouri, Columbia, Mo. (58). **G M**

Miller, Milo G., M. D., 4018 Spring Garden St., Philadelphia, Pa. (63). **K**

Miller, Newman, Director, The University of Chicago Press, 5515 Woodlawn Ave., Chicago, Ill. (58). **E I**

Miller, Newton, Ph. D., Wheaton College, Norton, Mass. (63). **F**

Miller, Ralph Chafee, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (65). **G**

Miller, Raymond M., 7 Knight St., Collingswood, N. J. (66). **C F**

Miller, Shirley Putnam, Professor of Zoology, South Dakota State College, Brookings, S. D. (58). **F**

Miller, Spencer, C. E., South Orange, N. J. (65). **D**

*Miller, W. Lash, Ph. D., Professor of Physical Chemistry, University of Toronto, Toronto, Canada. (60). 1910. **C**

*Miller, Willet G., LL. D., Bureau of Mines, Toronto, Canada. (58). 1910. **E**

*Miller, William Snow, M. D., Professor of Anatomy, University of Wisconsin, Madison, Wis. (42). 1894. **F**

*Millikan, Robert Andrews, Ph. D., Sc. D., Professor of Physics, University of Chicago, Chicago, Ill. (58). 1910. **B**

*Millis, Col. John, Corps of Engineers, U. S. A., U. S. Engineer Office, Newport, R. I. (48). 1906. **A B D E**

Mills, Frank Smith, Professor of Geology, Province Lake, N. H. (52). **D E**

*Mills, James Edward, Ph. D., Le Conte Building, University of South Carolina, Columbia, S. C. (52). 1910. **C**

Mills, Knower, Forest Service, Nevada City, Cal. (65). **G M**

Mills, Owen W., Professor of Biology, Westminster College, New Wilmington, Pa. (65). **F**

*Mills, William C., Page Hall, Ohio State University, Columbus, Ohio. (48). 1902. **F H**

*Millspaugh, Charles Frederic, M. D., Curator, Department of Botany, Field Museum of Natural History, Chicago, Ill. (57). 1907. **E G L**

MILNE, DAVID, Schoolhouse Lane, Germantown, Philadelphia, Pa. (51).

Milroy, Ina A., Ph. D., 1617 Blanding St., Columbia, S. C. (60). **B C**

*Miner, James Burt, Ph. D., Asst. Professor of Psychology, University of Minnesota, Minneapolis, Minn. (52). 1906. **H L**

Miner, Roy Waldo, Assistant Curator of Invertebrate Zoology, American Museum of Natural History, New York, N. Y. (57). **F**

MINNS, MISS SUSAN, 14 Louisburg Square, Boston, Mass. (32).

Minot, Miss L. S., 245 Marlborough St., Boston, Mass. (60).

Miser, H. D., U. S. Geological Survey, Washington, D. C. (65). **E**

Mitchell, Andrew S., Chief, Food and Drug Inspection Laboratory, Old Capitol Building, St. Paul, Minn. (61). **C**

MITCHELL, ARTHUR M., 68 Wall St., New York, N. Y. (57).

Mitchell, Charles Anderson, Ph. D., Bellevue, Nebr. (58). **H**

Mitchell, David, Ph. D., 36th St. and Powelton Ave., Philadelphia, Pa. (65). **H**

Mitchell, Evelyn Groesbeek, 604 Harvard St., Washington, D. C. (54). **F**

Mitchell, George, E. M., 1367 South Figueroa St., Los Angeles, Cal. (60). **D**

Mitchell, Guy K., E. E., 123 South Calvert St., Baltimore, Md. (60). **D**

*Mitchell, Henry Bedinger, Professor of Mathematics, Columbia University, New York, N. Y. (50). 1906. **A D**

MITCHELL, JOHN, JR., President, The Mechanics Savings Bank, Richmond, Va. (65).

*Mitchell, John Pearce, Ph. D., Assistant Professor of Chemistry, Leland Stanford Junior University, Stanford University, Cal. (51). 1911. **C**

Mitchell, Langdon Elwyn, 2320 De Lancey Place, Philadelphia, Pa. (65).

Mitchell, Oliver Wendell Holmes, M. D., Assistant Professor of Bacteriology, Syracuse Medical College, Syracuse, N. Y. (64). **K**

*Mitchell, Samuel Alfred, Ph. D., Director, Leander McCormick Observatory, University of Virginia, Charlottesville, Va. (52). 1906. **A B**

*Mitchell, Ulysses Grant, Ph. D., Associate Professor of Mathematics, University of Kansas, Lawrence, Kans. (63). 1915. **A**

Mitchell, Walter Alfred, Professor of Physics, Soochow University, Soochow, China. (62). **B**

*Mitchell, Walter Mann, Ph. D., 112 North 34th St., Philadelphia, Pa. (54). 1908. **A B**

Mitchell, William Francis, M. D., Lancaster, Mo. (51). **H**

*Mitzmain, Maurice Bruin, M. D., U. S. Public Health Service, New Orleans, La. (58). 1914. **F**

Mixer, Charles Adam, C. E., Rumford Falls Power Co., Rumford, Me. (51). **D**

*Mixer, Frederick Knowlton, 14 Tillinghast Place, Buffalo, N. Y. (35). 1911. **E**

MIXTER, GEORGE, 2d, 180 Marlborough St., Boston, Mass. (60).

*Mixter, Samuel Jason, M. D., 180 Marlborough St., Boston, Mass. (58). 1909. **K**

*Miyake, Kiichi, Ph. D., Agricultural College, Imperial University, Tokyo, Japan. (51). 1903. **G**

*Moenkhaus, William J., Ph. D., Professor of Physiology, Indiana University, Bloomington, Ind. (51). 1903. **F K**

*Moerk, Frank Xavier, 145 North 10th St., Philadelphia, Pa. (60). 1911. **C**

Moffat, Will Sayer, M. D., 105 So. La Salle St., Chicago, Ill. (58). **G**

*Moffit, Fred. H., U. S. Geological Survey, Washington, D. C. (63). 1914. **E**

Mohler, Fred Loomis, 261 W. Hoffman St., Baltimore, Md. (65). **B**

*Mohler, John Frederick, Ph. D., Professor of Physics, Dickinson College, Carlisle, Pa. (44). 1905. **B**

Mohr, Louis, M. E., 349 West Illinois St., Chicago, Ill. (50). **A B D E F H I K L**

Mojonnier, Timothy, Walla Walla, Wash. (52). **C**

*Moler, George Sylvanus, Professor of Physics, Cornell University, Ithaca, N. Y. (38). 1892. **B**

*Molera, Eusebius Joseph, C. E., 2025 Sacramento St., San Francisco, Cal. (50). 1915. **D**

Monae-Lesser, Dr. A., 164 West 72d St., New York, N. Y. (57).

Monfort, Wilson F., Chemist to Water Commission, 4458 Washington Boulevard, St. Louis, Mo. (48). **C**

Monroe, Joseph Eaton, Professor of Physics and Chemistry, Montana State Normal College, Dillon, Mont. (50). **B C**

*Monroe, Paul, Ph. D., LL. D., Professor of History of Education, Columbia University, New York, N. Y. (57). 1910. **I L**

*Monroe, Will Seymour, Professor of Psychology, State Normal School, Montclair, N. J. (49). 1901. **H L**

Monsen, Frederick Inman, Salmagundi Club, 14 West 12th St., New York, N. Y. (60). **H**

*Montague, William Pepperell, Ph. D., Adjunct Professor of Philosophy, Columbia University, New York, N. Y. (54). 1906. **H I**

Montgomery, Edmund B., M. D., 134 North 8th St., Quincy, Ill. (51). **I K**

*Montgomery, Edward Gerrard, Professor of Field Crops, Cornell University, Ithaca, N. Y. (64). 1915. **G M**

*Montgomery, Henry, Ph. D., Curator of Museum, University of Toronto, Toronto, Canada. (54). 1907. **E F H**

Montgomery, John R., 959 The Rookery, Chicago, Ill. (58).

Montgomery, William John, Ph. D., 161 Devonshire St., Boston, Mass. (63) **A**

*Moodie, Roy Lee, Ph. D., Assistant Professor of Zoology, University of Kansas, Lawrence, Kans. (60). 1915. **F**

*Moody, Agnes Claypole, Ph. D., 2826 Garber St., Berkeley, Cal. (46). 1899. **F**

Moody, Graham B., 1829 Berryman St., Berkeley, Cal. (65).

*Moody, Herbert Raymond, Ph. D., Secretary, College of the City of New York, New York, N. Y. (58). 1911. **C**

Moody, Julia Eleanor, 6 Summit Road, Wellesley, Mass. (65). **F**

*Moody, Mary Blair, M. D., 2826 Garber St., Berkeley, Cal. (25). 1911. **E F**

*Moody, Robert Orton, M. D., Assistant Professor of Anatomy, University of California, Berkeley, Cal. (35). 1892. **K L**

Moody, W. L., 1829 Berryman St., Berkeley, Cal. (65).

*Moody, William Albion, Professor of Mathematics, Bowdoin College, Brunswick, Me. (50). 1906. **A**

*Mooers, Charles Ansel, Professor of Chemistry and Agronomy, University of Tennessee, Knoxville, Tenn. (55). 1911. **C M**

Mook, Charles Craig, American Museum of Natural History, New York, N. Y. (62). **E F**

*Moon, Frank F., Professor of Forest Engineering, N. Y. State College of Forestry, Syracuse, N. Y. (63). 1915. **G M**

Moore, Mrs. Alice Rogers, 132 Winsor Ave., Watertown, Mass. (63). **B**

*Moore, Andrew Charles, LL. D., Professor of Biology and Geology, University of South Carolina, Columbia, S. C. (54). 1909. **F G**

Moore, Mrs. Arthur H., P. O. Box 384, St. John's, Quebec, Canada. (32). **H**

*Moore, Arthur Russell, Ph. D., Biological Laboratory, Bryn Mawr, Pa. (63). 1915. **F**

Moore, Barrington, 40 East 83d St., New York, N. Y. (64). **G**

*Moore, C. C., Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (58). 1911. **C**

*Moore, Clarence Bloomfield, 1321 Locust St., Philadelphia, Pa. (44). 1897. **H**

*Moore, Edward James, Ph. D., Associate Professor of Physics, Oberlin College, Oberlin, Ohio. (63). 1915. **B**

*Moore, Eliakim Hastings, Sc. D., Ph. D., LL. D., Professor of Mathematics, University of Chicago, Chicago, Ill. (52). 1903. **A B**

*Moore, Elwood S., Ph. D., Professor of Geology and Mineralogy, Pennsylvania State College, State College, Pa. (61). 1911. **E**

Moore, Emmeline, Ph. D., Department of Botany, Vassar College, Poughkeepsie, N. Y. (64). **F G**

*Moore, Ernest Carroll, Ph. D., Professor of Education, Harvard University, Cambridge, Mass. (63). 1915. **L**

*Moore, Frank C., Associate Professor of Mathematics, New Hampshire College, Durham, N. H. (58). 1915. **A**

Moore, Frank C., 70 Columbia Heights, Brooklyn, N. Y. (61). **E**

*Moore, George Thomas, Ph. D., Director, Missouri Botanical Garden, St. Louis, Mo. (49). 1901. **G**

Moore, James Alexander, Principal, Walker County High School, Jasper, Ala. (63).

Moore, John Bassett, LL. D., 267 West 73d St., New York, N. Y. (65).

*Moore, John Percy, Ph. D., Professor of Zoology, University of Pennsylvania, Philadelphia, Pa. (54). 1906. **F**

*Moore, Joseph Haines, Ph. D., Lick Observatory, Mt. Hamilton, Cal. (60). 1910. **A B**

*Moore, Richard Bishop, U. S. Bureau of Mines, 502 Foster Building, Denver, Colo. (60). 1911. **C**

Moore, Richard Mott, 74 South Fitzhugh St., Rochester, N. Y. (60). **F**

Moore, Robert, C. E., 61 Vandeventer Place, St. Louis, Mo. (51). **D I**

Moore, Stanley H., M. E., 505 Selma Ave., Webster Groves, Mo. (50). **A D**

*Moore, Veranus Alva, M. D., Dean, New York State Veterinary College, Ithaca, N. Y. (57). 1911. **K L**

Moore, William, 2295 Doswell Ave., St. Anthony Park, St. Paul, Minn. (60). **G**

*Moorehead, Warren King, Curator of Museum, Phillips Academy, Andover, Mass. (38). 1890. **H**

*More, Louis Trenchard, Ph. D., Professor of Physics, University of Cincinnati, Cincinnati, Ohio. (58). 1910. **B**

*Morgan, A. C., U. S. Department of Agriculture, Washington, D. C. (54). 1914. **F**

Morgan, Anna H., Ph. D., Mt. Holyoke College, So. Hadley, Mass. (63). **F**

Morgan, Arthur E., C. E., City National Bank Building, Dayton, Ohio. (62). **D**

Morgan, F. Corlies, Montgomery Ave., Chestnut Hill, Philadelphia, Pa. (65).

*Morgan, H. Alexander, Professor of Zoology and Entomology, University of Tennessee, Knoxville, Tenn. (50). 1906. **F**

*Morgan, J. Livingston R., Ph. D., Professor of Physical Chemistry, Columbia University, New York, N. Y. (58). 1910. **C**

*Morgan, James Dudley, M. D., 919 15th St. N. W., Washington, D. C. (60). 1911. **K**

Morgan, James Oscar, Ph. D., Professor of Agronomy, A. and M. College of Texas, College Station, Texas. (65). **M**

*Morgan, Thomas Hunt, Ph. D., LL. D., Professor of Experimental Zoology, Columbia University, New York, N. Y. (54). 1906. **F**

*Morgan, William Conger, Ph. D., Reed College, Portland, Oregon. (52). 1906. **C L**

Morgan, William Fellowes, Short Hills, N. J. (27). **I L**

Moriarta, Douglas C., M. D., 511 Broadway, Saratoga Springs, N. Y. (60). **K**

Morison, Robert S., 17 Farrar St., Cambridge, Mass. (60).

*Moritz, Robert Edouard, Ph. D., Professor of Mathematics, University of Washington, Seattle, Wash. (65). 1915. **A**

*Morley, Edward Williams, Sc. D., Ph. D., LL. D., West Hartford, Conn. (18). 1876. **B C E**

Morrey, Charles Bradfield, M. D., Professor of Bacteriology, Ohio State University, Columbus, Ohio. (48). **F**

*Morrill, Albro David, Professor of Biology, Hamilton College, Clinton, N. Y. (60). 1911. **F**

*Morrill, Austin Winfield, Ph. D., State Entomologist, Phoenix, Ariz. (54). 1906. **F**

*Morrill, Charles Virgin, Ph. D., 338 East 26th St., New York, N. Y. (56). 1913. **F**

Morris, Mrs. Charles Ellis, 2106 Spruce St., Philadelphia, Pa. (65).

*Morris, Earl L., Hall of Records, San José, Cal. (58). 1914. **F G**

Morris, Frederic K., 485 Central Park, West, New York, N. Y. (58). **E**

Morris, George E., 34 Appleton St., Waltham, Mass. (61).

Morris, Harry, State Experiment Station, Baton Rouge, La. (63). **K**
Morris, Henry Crittenden, 924 Marquette Building, Chicago, Ill. (58). **I**
Morris, Henry Lewis, 32 Liberty St., New York, N. Y. (49).
Morris, James Lucien, 5274 Waterman Ave., St. Louis, Mo. (58). **C**
MORRIS, NEWBOLD, 115 East 73d St., New York, N. Y. (49). **L**
*Morris, Richard, Ph. D., Professor of Mathematics, Rutgers College, New Brunswick, N. J. (63). 1915. **A**
Morris, Robert Tuttle, M. D., 616 Madison Ave., New York, N. Y. (63). **K**
Morris, Wilson C., Ph. D., Professor of Physics, State Normal School, Warrensburg, Mo. (60). **A B**
Morrison, Alva, 53 Middle St., Braintree, Mass. (60).
Morrison, Henry Clinton, Concord, N. H. (61).
Morrison, J. D., Agricultural Experiment Sub-station, Highmore, S. D. (66). **M**
Morrison, Laurence Stillman, Redlands, Cal. (64). **K**
Morrison, Thomas, E. M., Diamond Bank Building, Pittsburgh, Pa. (51). **D**
Morrison, William B., M. D., 145 West Washington St., Hagerstown, Md. (60). **K**
Morrissey, John P., S. J., St. Xavier College, Cincinnati, Ohio. (63). **C**
*MORSE, EDWARD SYLVESTER, Ph. D., Director, Peabody Museum, Salem, Mass. (18). 1874. **F H**
*Morse, Fred. Winslow, Professor of Chemistry, Massachusetts Agricultural Experiment Station, Amherst, Mass. (51). 1906. **C**
Morse, Fremont, U. S. Coast and Geodetic Survey, P. O. Box 2512, San Francisco, Cal. (65).
*Morse, Josiah, Ph. D., Professor of Philosophy and Psychology, University of South Carolina, Columbia, S. C. (63). 1914. **H L**
*Morse, Max Withrow, Ph. D., Professor of Biology, Trinity College, Hartford, Conn. (51). 1911. **F K**
Morse, Mrs. Virgil D., 512 Edgewood Place, Ithaca, N. Y. (65). **I L**
Morse, Waldo Grant, 324 Palisade Ave., Yonkers, N. Y. (66).
*Morse, Warner Jackson, Ph. D., University of Maine, Orono, Me. (52). 1911. **G**
Morse, William Clifford, Washington University, St. Louis, Mo. (60). **E**
Morse, William H., 1937 Lagunia St., Santa Barbara, Cal. (60). **G**
Morton, Darwin Abbot, Ph. D., 420 Hamilton St., Syracuse, N. Y. (63). **C**
Morton, George L., 503 The Ontario, Washington, D. C. (52). **B D**
Moschcowitz, Alexis V., M. D., 925 Madison Ave., New York, N. Y. (56). **K**
*Moseley, Edwin L., State Normal College, Bowling Green, Ohio. (34). 1902. **E F G K**
*Moser, Jefferson Franklin, Captain, U. S. N., Retired, 85 2d St., San Francisco, Cal. (28). 1889. **E**
*Moses, Alfred Joseph, Ph. D., Professor of Mineralogy, Columbia University, New York, N. Y. (49). 1902. **E**

Moses, Herbert L., 2344 Eutaw Place, Baltimore, Md. (65). **C**

*Moses, Thomas Freeman, M. D., Worcester Lane, Waltham, Mass. (25). 1883. **E H K**

Mosher, Charles D., 17 Battery Place, New York, N. Y. (53). **D**

Mosher, M. L., De Witt, Iowa. (66). **M**

Mosier, Jeremiah G., Professor of Soil Physiology, University of Illinois, Urbana, Ill. (66). **M**

Mosley, Thomas Jefferson, Professor of Physics, Southwestern University, Georgetown, Texas. (65). **B**

Moss, Harold R., 1001 22d Ave., East Oakland, Cal. (65).

Mosser, Thomas J., Newberry Station, Williamsport, Pa. (63).

Mote, Don Carlos, Assistant Professor of Animal Husbandry, Ohio Agricultural Experiment Station, Wooster, Ohio. (64). **F**

Mott, Howard Schenck, care Bankers Trust Co., 16 Wall St., New York, N. Y. (57). **I**

*Mott, William Elton, Professor of Civil Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. (60). 1915. **D**

*Mott, William Roy, 1586 Cohassett Ave., Cleveland, Ohio. (60). 1911. **C**

*Motter, Murray Galt, M. D., 2314 19th St. N. W., Washington, D. C. (51). 1910. **C K**

Motter, William D. B., Jr., E. M., care Southwest Smelting and Refining Co., Orogrande, N. M. (60). **D**

*Mottier, David Myers, Ph. D., Professor of Botany, University of Indiana, Bloomington, Ind. (50). 1901. **G**

*Moulton, C. Robert, Ph. D., Assistant Professor of Agricultural Chemistry, College of Agriculture, Columbia, Mo. (58). 1911. **C M**

*Moulton, Dudley, Ferry Building, San Francisco, Cal. (57). 1914. **F**

*Moulton, Forest Ray, Ph. D., Professor of Astronomy, University of Chicago, Chicago, Ill. (50). 1901. **A**

Moulton, W. H., care Cleveland Cliffs Iron Co., Ishpeming, Mich. (53). **D**

Mount, George Haines, Ph. D., Professor of Psychology, Iowa State Teachers College, Cedar Falls, Iowa. (62). **H L**

Mowlds, Eugene, C. E., American Bridge Co., Edgemoor, Del. (60). **D**

Mowry, Eugene C., M. D., 355 West 42d St., New York, N. Y. (60). **K**

*Moyer, James Ambrose, Professor of Mechanical Engineering, Pennsylvania State College, State College, Pa. (54). 1911. **D**

Moyer, Lycurgus R., Montevideo, Minn. (50). **G**

Muchmore, Lyman J., 525 Franklin St., Whittier, Cal. (65).

*Muckenfuss, Anthony Moultrie, Ph. D., Professor of Chemistry, University of Mississippi, University, Miss. (52). 1910. **C**

*Mudd, Harvey Gilmer, M. D., Humboldt Building, St. Louis, Mo. (60). 1911. **K**

Mudge, Courtland S., National Canners Association, 1739 H St., N. W., Washington, D. C. (63).

*Mueller, Edward, Ph. D., 47 Walker Building, Massachusetts Institute of Technology, Boston, Mass. (52). 1911. **B C K**

*Muhlberg, William, M. D., 2617 Vine St., Cincinnati, Ohio. (57). 1911. **K**

Muhse, Mrs. Albert Charles, Ph. D., care British-American Tobacco Co., 86 Strand, London, W. C., England. (58). **F**

Mulford, Miss A. Isabel, 128 Sixth Ave., East, Calgary, Canada. (45). **G L**

Mulholland, William, 645 So. Olive St., Los Angeles, Cal. (66).

*Mullenix, Rollin Clarke, Ph. D., Professor of Biology, Lawrence College, Appleton, Wis. (60). 1913. **F**

*Mulliken, Samuel Parsons, Ph. D., Massachusetts Institute of Technology, Boston, Mass. (43). 1899. **C**

Mullin, Robert Hyndman, M. D., Director, Laboratory Division, Minnesota State Board of Health, Minneapolis, Minn. (64). **K**

Mulvania, Maurice, Tennessee Agricultural Experiment Station, Knoxville, Tenn. (65). **F**

*Mumford, Frederick Blackmar, Dean, College of Agriculture, University of Missouri, Columbia, Mo. (63). 1915. **G M**

Mumford, Herbert Windsor, Professor of Animal Husbandry, University of Illinois, Urbana, Ill. (63). **M**

Muncaster, Stewart Brown, M. D., 907 16th St. N. W., Washington, D. C. (50). **K**

Muncie, J. Howard, Michigan Agricultural College, East Lansing, Mich. (65). **G**

Munier, Léon E., 973 Dolores St., San Francisco, Cal. (65).

MUNN, JOHN PIXLEY, M. D., 277 Broadway, New York, N. Y. (57). **K**

*Munn, Malcolm John, Gulf Pipe Line Co., Clinton Building, Tulsa, Okla. (62). 1913. **E**

*MUNROE, CHARLES EDWARD, Ph. D., Professor of Chemistry, George Washington University, Washington, D. C. (22). 1874. **C**

*Munson, John P., Ph. D., 706 North Anderson St., Ellensburg, Wash. (58). 1911. **F I K L**

*Münsterberg, Hugo, M. D., Ph. D., LL. D., Professor of Psychology, Harvard University, Cambridge, Mass. (47). 1898. **H**

*Murbach, Louis, Ph. D., Central High School, Detroit, Mich. (54). 1911. **F**

*Murdoch. John, 16 High Rock Way, Allston, Mass. (29). 1886. **F H**

Murdock, Carleton Chase, Department of Physics, Cornell University, Ithaca, N. Y. (65). **B**

Murdy, Robert L., M. D., Aberdeen, S. D. (60). **K**

Murfee, Edward Hunter, LL. D., Brenau College, Gainesville, Ga. (63). **B C**

Murfee, Hopson Owen, President, Marion Institute, Marion, Ala. (61). **A B**

*Murlin, John Raymond, Ph. D., Assistant Professor of Physiology, Cornell University Medical School, New York, N. Y. (54). 1906. **K**

Murphey, Howard Sylvester, Associate Professor of Anatomy and Histtology, Iowa State College, Ames, Iowa. (65). **K**

Murphy, A. J., 3 & 4 Queen Square, Leeds, England. (63).

Murphy, Felix, M. D., Doylestown, Pa. (60). **K**

Murphy, Francis Hayes, E. E., Portland Railway, Light and Power Co., Portland, Ore. (60). **D**

Murphy, J. Francis, Arkville, N. Y. (65).

*Murphy, Robert Cushman, Curator, Division of Mammals and Birds, Brooklyn Institute Museum, Brooklyn, N. Y. (65). 1915. **F**

*Murray, Daniel Alexander, Ph. D., Professor of Applied Mathematics, McGill University, Montreal, Canada. (47). 1899. **A**

Murray, James Jardine, E. M., Orogrande, New Mexico. (60). **D**

Murray, John Francis, C. E., 607 Broad St. Station, Philadelphia, Pa. (60). **D**

Murray, T. Morris, M. D., 2107 Massachusetts Ave., Washington, D. C. (60). **K**

*Musgrave, William Everett, M. D., College of Medicine and Surgery, University of the Philippines, Manila, P. I. (63). 1915. **K**

*Muttkowski, Richard A., Zoological Department, University of Wisconsin, Madison, Wis. (62). 1914. **F**

Myer, Arthur H., care Standard Oil Co., Drawer H, Bakersfield, Cal. (65).

Myers, Clyde, Ph. D., Assistant Professor of Plant Breeding, New York State College of Agriculture, Ithaca, N. Y. (65). **G M**

Myers, Dr. Edward W., 375 Arcade Building, Greehsboro, N. C. (49).

Myers, George E., care State Normal School, Pittsburg, Kans. (62). **L**

*Myers, George William, Ph. D., Professor of Mathematics and Astronomy, University of Chicago, Chicago, Ill. (46). 1899. **A**

Myers, Miss Katrina, 1614 Broadway, Indianapolis, Ind. (66). **L**

Myers, Nathaniel, 135 Central Park, West, New York, N. Y. (57).

*Myers, Victor C., Ph. D., 1431 University Ave., New York, N. Y. (60). 1911. **C**

*Myers, William Shields, Sc. D., 25 Madison Ave., New York, N. Y. (43). 1898. **C**

Nabours, Robert Kirkland, Ph. D., Professor of Zoology, Kansas State Agricultural College, Manhattan, Kans. (63). **G**

*Nachtrieb, Henry Francis, Professor of Animal Biology, University of Minnesota, Minneapolis, Minn. (53). 1905. **F**

*Nagle, James C., C. E., Chairman, Board of Water Engineers, Austin, Texas. (40). 1893. **B D**

Naidu, A. S., M. E., Vizianagram City, Vizagpatam District, Madras, India, (65). **D**

Nakamura, Keijiro, E. M., care Baron Sumitomo's General Head Office, Kitahama, Higashiku, Osaka, Japan. (60). **D**

*Nash, George Valentine, 2587 Bainbridge Ave., New York, N. Y. (47). 1906. **G**

*Nason, Frank Lewis, E. M., West Haven, Conn. (36). 1888. **E**

*Nason, William Abbot, M. D., Algonquin, Ill. (58). 1914. **F**
*Neal, Herbert Vincent, Ph. D., Professor of Zoology, Tufts College, Tufts College, Mass. (53). 1905. **F**
Neale, Henry Marion, M. D., Upper Lehigh, Pa. (58). **K**
Nealy, Walter A., 32 Webster St., Walden, Mass. (64).
Neeb, Charles William, P. O. Box 127, Pittsburgh, Pa. (63). **E H I**
*Needham, James George, Ph. D., Professor of Biology, Limnology and Nature Study, Cornell University, Ithaca, N. Y. (45). 1898. **F L**
Neely, Miss Carrie Blair, 4929 Greenwood Ave., Chicago, Ill. (66). **M**
Neely, John Crosby, E. E., 181 La Salle St., Chicago, Ill. (60). **D**
*Nef, John Ulric, Ph. D., Professor of Chemistry, University of Chicago, Chicago, Ill. (39). 1891. **C**
Neff, Byron D., 1333 No. Dearborn St., Indianapolis, Ind. (64).
*Neff, Frank Howard, C. E., Professor of Civil Engineering, Case School of Applied Science, Cleveland, Ohio. (63). 1915. **D**
Neff, George Rea, M. D., Farmington, Iowa. (58). **F H K**
Neiler, Samuel Graham, Consulting and Designing Engineer, 1409 Manhattan Building, Chicago, Ill. (50). **D**
Neilson, Walter Hopper, M. D., Editor, *Milwaukee Medical Journal*, 114 Garfield Ave., Milwaukee, Wis. (51). **K**
*Neish, Arthur C., Ph. D., Assistant Professor of Chemistry, Columbia University, New York, N. Y. (63). 1915. **C**
Nelms, William Stockton, Ph. D., Georgia School of Technology, Atlanta, Ga. (63). **B**
*Nelson, Alfred Brierley, M. D., Emeritus Professor of Mathematics, Central University, Danville, Ky. (30). 1882. **A B**
*Nelson, Aven, Ph. D., Professor of Botany, University of Wyoming, Laramie, Wyo. (50). 1903. **G**
Nelson, Edgar, Agricultural Experiment Station, Gainesville, Fla. (64). **G**
*Nelson, Edward William, U. S. Department of Agriculture, Washington, D. C. (54). 1906. **F**
*Nelson, James Allen, Ph. D., Bureau of Entomology, U. S. Department of Agriculture, Washington, D. C. (55). 1911. **F**
Nelson, James W., M. E., 38 Livingston St., Brooklyn, N. Y. (60). 1911. **D**
Nelson, N. L. T., Ph. D., Gainesville, Fla. (53). **G**
*Nelson, Wilbur Armistead, Tennessee Geological Survey, Nashville, Tenn. (64). 1915. **E**
Nesbitt, Charles A., 1216 B. of L. E. Building, Cleveland, Ohio. (63).
Ness, Henry, 408 6th Ave., Shenandoah, Iowa. (58). **F**
Nettleroth, Alexander, M. D., 629 Baxter Ave., Louisville, Ky. (60). **K**
Neu, Clarence Leonard, 4547 Greenview Ave., Chicago, Ill. (65).
Neuman, Leo Händel, M. D., 194 State St., Albany, N. Y. (60). **K**
*Newcomb, Harry Turner, R. F. D. 1, Bethesda, Md. (47). 1898. **I**
Newcomb, Rexford, 2029 Atlantic Ave., Long Beach, Cal. (65).
NEWCOMB, WILLIAM W., M. D., 48 Webb Ave., Detroit, Mich. (58). **F K**

*Newcombe, Frederick Charles, Ph. D., Professor of Botany, University of Michigan, Ann Arbor, Mich. (43). 1896. **G**

Newell, Miss Anna Grace, 401 So. Wright St., Champaign, Ill. (63). **F**

Newell, Clyde Ross, 905 West Illinois St., Urbana, Ill. (63). **F**

*Newell, Lyman Churchill, Ph. D., 2218 Durant Ave., Berkeley, Cal. (60). 1911. **C**

Newell, Marcus A., M. D., Sheridan, Wyo. (60). **K**

*Newell, Wilmon, Professor of Entomology and State Entomologist, A. and M. College of Texas, College Station, Texas. (53). 1906. **F G**

Newhart, Horace, M. D., 910 Donaldson Building, Minneapolis, Minn. (60). **K**

Newins, Harold S., Assistant Professor of Forestry, Oregon Agricultural College, Corvallis, Ore. (63). **G M**

*Newkirk, Burt Leroy, Ph. D., Assistant Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. (58). 1915. **A D L**

Newkirk, Chauncey F., 4313 North Hermitage Ave., Chicago, Ill. (58).

*Newland, David Hale, Assistant State Geologist, State Museum, Albany, N. Y. (54). 1909. **E**

*Newlands, James A., 11 Laurel St., Hartford, Conn. (57). 1909. **C K**

Newman, Arthur C., Cardozo Vocational School, Washington, D. C. (61). **L**

*Newman, Horatio Hackett, Ph. D., Associate Professor of Zoology and Embryology, University of Chicago, Chicago, Ill. (58). 1909. **F**

Newman, Hugo, 538 West 150th St., New York, N. Y. (61). **L**.

Newman, L. H., Department of Agriculture, Canadian Building, Ottawa, Canada. (66). **M**

Newman, S. W., 2209 Buchanan St., San Francisco, Cal. (65).

Newman, Stephen Morrell, D. D., President, Howard University, Washington, D. C. (63).

*Newsom, John Flesher, Ph. D., Professor of Mining Geology, Leland Stanford Junior University, Stanford University, Cal. (44). 1903. **E**

Newton, Earl B., 57 West Etruria St., Station F, Seattle, Wash. (62).

Nicholl, Roy Hubert, King's County Hospital, Brooklyn, N. Y. (63). **K**

Nichols, Austin P., 4 Highland Ave., Haverhill, Mass. (37). **C**

Nichols, Carroll B., 7 Polo Road, Bryn Mawr, Pa. (65). **D**

Nichols, Charles Lemuel, M. D., 38 Cedar St., Worcester, Mass. (60). **K**

*Nichols, Edward Leamington, Ph. D., Professor of Physics, Cornell University, Ithaca, N. Y. (28). 1881. **B C**

*Nichols, Ernest Fox, LL. D., President, Dartmouth College, Hanover, N. H. (41). 1893. **B**

*Nichols, Henry James, Captain, Medical Corps, U. S. A., Army Medical School, Washington, D. C. (65). 1915. **K**

Nichols, Irby Coghill, A. and M. College of Texas, College Station, Texas. (65). **A**

*NICHOLS, JOHN TREADWELL, American Museum of Natural History, New York, N. Y. (62). 1915. **F**

Nichols, Mrs. Julia Steelman, 1133 Lomita Ave., Glendale, Cal. (64).

Nichols, M. Louise, Ph. D., Department of Geography and Zoology, Philadelphia Normal School, Philadelphia, Pa. (54). **E F L**

*Nichols, Susan P., Ph. D., Department of Botany, Oberlin College, Oberlin, Ohio. (60). 1911. **G**

*Nichols, Walter Smith, 100 William St., New York, N. Y. (54). 1906. **A B**

Nichols, William Ford, D. D., 1215 Sacramento St., San Francisco, Cal. (65).

*Nichols, William Henry, Sc. D., LL. D., 25 Broad St., New York, N. Y. (57). 1908. **C**

Nichols, William Wallace, M. E., 30 Church St., New York, N. Y. (60). **D**

Nicholson, Joseph L., M. D., 400 Penn St., Camden, N. J. (60). **K**

Nicholson, Louise, Jordan, N. Y. (60). **A**

*Nicol, William, Professor of Mineralogy, School of Mining, Kingston, Canada. (57). 1909. **E**

Nicola, Frank F., Farmers Bank Building, Pittsburgh, Pa. (50). **D**

*Nies, Rev. James Buchanan, Ph. D., Hotel St. George, Brooklyn, N. Y. (58). 1913. **H**

Nigrin, J. Victor, 1643 South Avers Avenue, Chicago, Ill. (64).

Niles, Robert Lossing, 20 Broad St., New York, N. Y. (47). **B C D**

*Nipher, Francis Eugene, LL. D., Professor of Physics, Washington University, St. Louis, Mo. (24). 1876. **B**

Nisbet, James Douglas, M. D., 34 West 50th St., New York, N. Y. (65). **K**

Nixon, George, E. E., 1704 West 11th Ave., Spokane, Wash. (60). **D**

Noble, Albert E., E. M., 20th St. and Wilmer Ave., Anniston, Ala. (60). **D**

*Noble, Charles Albert, Ph. D., Associate Professor of Mathematics, University of California, Berkeley, Cal. (60). 1910. **A**

Noble, Frederick Charles, C. E., 867 President St., Brooklyn, N. Y. (65) **D**

Noble, Harriet Isabel, M. D., 262 Putnam Ave., Brooklyn, N. Y. (58). **K**

*Noble, Levi F., Ph. D., Valyermo, Cal. (54). 1911. **E**

Noer, Julius, M. D., Stoughton, Wis. (60). **K**

*Nolan, Edward J., M. D., Academy of Natural Sciences, Philadelphia, Pa. (29). 1890. **F K**

Nolte, Lewis Gustavus, M. D., Senn's Block, Milwaukee, Wis. (51). **K**

Norbury, Frank Parsons, M. D., 7th St. and Capitol Ave., Springfield, Ill. (58). **H I K L**

Nörgaard, Victor A., V. S., Honolulu, Hawaii. (59). **F K**

*Norris, Charles, M. D., 2131 Broadway, New York, N. Y. (57). 1908. **K**

Norris, F. O., M. D., Eagle Lake, Tex. (60). **K**

Norris, George William, M. D., Assistant Professor of Medicine, University of Pennsylvania, Philadelphia, Pa. (65). **K**

Norris, Mrs. Harriette B. Holbrook, 304 Moffett Ave., Joplin, Mo. (65).

*Norris, Harry Waldo, Professor of Zoology, Iowa College, Grinnell, Iowa. (53). 1908. **F**

*Norris, James Flack, Ph. D., Professor of Chemistry, and Director of Chemical Laboratories, Vanderbilt University, Nashville, Tenn. (54). 1906. **C**

Norris, Miss Olive K., Sage Cottage, Ithaca, N. Y. (65).

Norris, Robert S., Ph. D., H. S. P. Experiment Station, Honolulu, Hawaii. (65). **C**

Norris, William H., M. E., 1000 Chestnut St., Philadelphia, Pa. (63). **D**

*Norsworthy, Naomi, Ph. D., Assistant Professor of Educational Psychology, Teachers College, Columbia University, New York, N. Y. (54). 1911. **K**

North, Charles E., M. D., Hudson Terminal, 30 Church St., New York, N. Y. (60). **D K**

North, Henry B., Sc. D., Associate Professor of Chemistry, Rutgers College, New Brunswick, N. J. (64). **C**

North, William B., 2140 Robinwood Ave., Toledo, Ohio. (60). **C**

Northrop, Robert S., P. O. Box 14, Redding, Cal. (66).

Northrup, Prof. Ann H., 1715 Calhoun St., New Orleans, La. (62). **C**

*Northrup, Edwin Fitch, Ph. D., Professor of Physics, Palmer Physical Laboratory, Princeton, N. J. (58). 1910. **B D**

Norton, A. Wellington, LL. D., Pearland, Tex. (52). **I**

Norton, Arthur Herbert, 22 Elm St., Portland, Me. (63). **F**

*Norton, Arthur Orlo, Assistant Professor of the History and Art of Teaching, Harvard University, Cambridge, Mass. (58). 1915. **L**

Norton, Charles Ladd, Professor of Heat Measurements, Massachusetts Institute of Technology, Boston, Mass. (65). **B**

Norton, Henry B., Minnesota Soldiers Home, Minneapolis, Minn. (63). **E**

*Norton, J. B. S., Professor of Botany, Maryland Agricultural College, College Park, Md. (47). 1899. **G**

*Norton, Jesse Baker, U. S. Department of Agriculture, Washington, D. C. (52). 1909. **G**

*Norton, John Foote, Assistant Professor of Chemistry of Sanitation, Massachusetts Institute of Technology, Boston, Mass. (58). 1915. **C**

Norton, John H., Gardena, Cal. (58). **C**

*Norton, John Pease, Ph. D., Assistant Professor of Economics and Statistics, Yale University, New Haven, Conn. (57). 1907. **I**

*NORTON, THOMAS HERBERT, Sc. D., Ph. D., 455 George St., New Haven, Conn. (35). 1887. **C**

Norton, Warren Carney, Department of Botany and Bacteriology, North Carolina College of Agriculture and Mechanic Arts, West Raleigh, N. C. (63). **G**

*Norwood, Charles Joseph, Professor of Mining and Metallurgy, State University of Kentucky, Lexington, Ky. (54). 1906. **E**

Notman, George, 99 John St., New York, N. Y. (57).

*Novy, Frederick George, M. D., Sc. D., Professor of Bacteriology, University of Michigan, Ann Arbor, Mich. (36). 1889. **C K**

Nowak, Carl A., Wm. Rohr Sons' Co., Manitowoc, Wis. (63).

*Noyes, Arthur Amos, Sc. D., Ph.D., LL.D., Professor of Physical Chemistry, Massachusetts Institute of Technology, Boston, Mass. (45). 1897. **C**

Noyes, La Verne, 1450 Lake Shore Drive, Chicago, Ill. (58).

*Noyes, William Albert, Ph. D., LL. D., Professor of Chemistry, University of Illinois, Urbana, Ill. (32). 1885. **C**

Nunn, Paul N., E. E., Wyoming Electric Co., Casper, Wyoming. (58). **C D**

*Nuttall, Mrs. Zelia, Casa Alvarado, Coyoacan, D. F., Mexico. (35). 1887. **H**

*Nutting, Charles Cleveland, Professor of Zoology, State University of Iowa, Iowa City, Iowa. (40). 1892. **F**

*Nutting, Perley Gilman, Ph. D., 3 Kodak Park, Rochester, N. Y. (53). 1906. **A B H L**

*Nyberg, Joseph Antonius, University of Wisconsin, Madison, Wis. (64). 1915. **A**

Nylander, Olof O., R. F. D. 4, Caribou, Me. (50). **F**

*Nyswander, Reuben Edson, Professor of Physics, University of Denver, University Park, Colo. (55). 1915. **B**

Oakley, Russell A., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (60). **G**

*Obear, George Barrows, Ph. D., Professor of Physics, Colby College, Waterville, Me. (54). 1915. **B D**

*Oberholser, Harry Church, U. S. Department of Agriculture, Washington, D. C. (46). 1898. **E F H**

O'Brien, John, Jr., M. D., Marting, W. Va. (60). **K**

O'Brien, Mary Editha, 134 Warren Ave., East, Detroit, Mich. (58).

O'Brien, Thomas H., E. M., General Manager, Stag Cañon Fuel Co., Dawson, N. M. (60). **D**

O'Byrne, Leo C., 2545 Washington Boulevard, Chicago, Ill. (56). **C D**

Ochs, Adolph S., care *New York Times*, New York, N. Y. (57).

Ochsner, Albert Henry, Eastover, Spring Grove, Va. (64). **G**

Ochsner, W. H., 923 First National Bank Building, San Francisco, Cal. (65).

O'Connell, Charles J., 2413 Portland Ave., Minneapolis, Minn. (60). **C**

O'Connell, Rt. Rev. Dennis Joseph, Bishop's House, 800 Cathedral Place, Richmond, Va. (58). **L**

O'Connell, Miss Marjorie, Columbia University, New York, N. Y. (63). **E**

Odenbach, Rev. Frederick Louis, S. J., Director, Meteorological Observatory, St. Ignatius College, Cleveland, Ohio. (54). **B E F**

O'Donnell, Prof. T. C., Editor, *Good Health Magazine*, Battle Creek, Mich. (65).

O'Donovan, Charles, M. D., 5 East Read St., Baltimore, Md. (58). **K**

*Oestlund, Oscar W., Ph. D., Assistant Professor of Biology, University of Minnesota, Minneapolis, Minn. (50). 1915. **F**

Oettinger, Philip J., Ph. D., 418 Central Park, West, New York, N. Y. (57). **C D**

Of, Charles, E. M., 615A Castro St., San Francisco, Cal. (61). **G**

*O'Gara, Patrick Joseph, American Smelting and Refining Co., Salt Lake City, Utah. (61). 1913. **G**

*Ogden, Henry Vining, M. D., 141 Wisconsin St., Milwaukee, Wis. (51). 1911. **F G K**

*Ogden, Robert Morris, Ph. D., Professor of Psychology, University of Kansas, Lawrence, Kans. (58). 1911. **H L**

Ogden, Rollo, Editor, *New York Evening Post*, New York, N. Y. (57).

*Ogilvie, Ida Helen, Ph. D., Department of Geology, Barnard College, Columbia University, New York, N. Y. (51). 1909. **E**

Oglevee, Christopher Stoner, Sc. D., Professor of Natural Science, Lincoln College, Lincoln, Ill. (50). **F G**

O'Halloran, Miss Rose, 237 Broderick St., San Francisco, Cal. (65).

*O'Harra, Cleophas Cisney, Ph. D., Professor of Mineralogy and Geology, State School of Mines, Rapid City, S. D. (48). 1907. **E**

*Ohern, Daniel Webster, Ph. D., Oklahoma Geological Survey, Norman, Okla. (58). 1911. **E**

*Ohle, Ernest Linwood, Professor of Mechanical Engineering, Washington University, St. Louis, Mo. (58). 1915. **D**

*Ohlmacker, Albert Philip, M. D., 350 Pennsylvania Ave., Detroit, Mich. (54). 1906. **K**

Okerström, Albert, M. D., 217 Charles St., Sycamore, Ill. (57). **K**

Okkelberg, Peter, Department of Zoology, University of Michigan, Ann Arbor, Mich. (63). **F**

*Olds, George Daniel, LL. D., Professor of Mathematics, Amherst College, Amherst, Mass. (54). 1907. **A**

O'Leary, Pearse, M. D., Vicksburg, Miss. (60). **K**

Oleson, Olaf M., Fort Dodge, Iowa. (53). **G**

Olin, Stephen Henry, D. D., LL. D., 22 East 47th St., New York, N. Y. (57). **I**

*Olive, Edgar William, Ph. D., Curator, Brooklyn Botanic Garden, Brooklyn, N. Y. (48). 1903. **G**

Oliver, Harry Reeves, Butler Building, San Francisco, Cal. (66).

Oliver, Wade Wright, 2233 Park Ave., Walnut Hills, Cincinnati, Ohio. (63). **K**

*Olivier, Charles Pollard, Ph. D., Leander McCormick Observatory, Charlottesville, Va. (63). 1913. **A**

Olmstead, Lewis Bertie, U. S. Department of Agriculture, Washington, D. C. (65). **B**

Olmsted, Everett Ward, Ph. D., 901 5th St., S. E., Minneapolis, Minn. (65).

Olmsted, F. A., Oregon City, Oregon. (64).

Olmsted, John Charles, Landscape Architect, 16 Warren St., Brookline, Mass. (50). **E I**

*Olney, Louis Atwell, Professor of Chemistry, Lowell Textile School, Lowell, Mass. (57). 1908. **C**

Olney, Warren, 427 29th St., Oakland, Cal. (66). **I**

Olsen, O. T., Ph. D., St. Andrew's Terrace, Grimsby, England. (60). **A B E F**

*Olsen, Tinius, Hotel Gladstone, Philadelphia, Pa. (51). 1915. **D**

Olson, Prof. David, Kent State Normal School, Kent, Ohio. (58). **E**

*Olson, George A., Professor of Chemistry, Washington Agricultural Experiment Station, Pullman, Wash. (60). 1911. **C**

OLYPHANT, ROBERT MORRISON, JR., 7 Wall St., New York, N. Y. (57).

O'Malley, Thomas James, M. D., 168 East North Ave., Chicago, Ill. (58). **B C H K**

*O'Neill, Edmond, Professor of Chemistry, University of California, Berkeley, Cal. (57). 1910. **C**

O'Neill, Emmett, 4665 Leiper St., Frankford, Philadelphia, Pa. (62). **K**

O'Neill, Rev. Thomas Lantry, D. D., 2630 Ridge Road, Berkeley, Cal. (65).

Opdyke, William Stryker, 20 Nassau St., New York, N. Y. (49).

*Ophüls, William, M. D., 114 Walnut St., San Francisco, Cal. (65). 1915. **K**

*Opie, Eugene Lindsay, M. D., Dean, Washington University Medical School, St. Louis, Mo. (58). 1911. **K**

Oppenheimer, Bernard Sutro, M. D., 125 West 86th St., New York, N. Y. (60). **K**

Orcutt, Alfred W., Professor of Zoology, Denison University, Granville, Ohio. (62). **F**

*Orcutt, Charles Russell, 1705 Broadway, San Diego, Cal. (62). 1914. **G**

O'Reilly, Andrew J., E. E., 2207 South Grand Ave., St. Louis, Mo. (60). **D**

*Orndorff, William Ridgely, Ph. D., Professor of Chemistry, Cornell University, Ithaca, N. Y. (60). 1910. **C**

Orr, Edward D., M. D., Mt. Hope, Wis. (58). **K**

Orr, Miss Mary Moore, 102 Remson St., Brooklyn, N. Y. (57). **I L**

*Orr, William, Jr., 508 Ford Building, Boston, Mass. (39). 1895. **B C E L**

Orrok, George A., C. E., Lee, Mass. (60). **D**

*Ortmann, Arnold Edward, Ph. D., Professor of Physical Geography, University of Pittsburgh, Pittsburgh, Pa. (51). 1903. **E F**

*Orton, Clayton Roberts, Assistant Professor of Botany, Pennsylvania State College, State College, Pa. (62). 1915. **G**

*Orton, Edward, Jr., Professor of Ceramic Engineering and Dean, College of Engineering, Ohio State University, Columbus, Ohio. (48). 1900. **C D E**

*Orton, William Allen, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (49). 1909. **G**

OSBORN, HON. CHASE SALMON, LL. D., Sault Ste. Marie, Mich. (60). **E**

*Osborn, Frederick A., Ph. D., Professor of Physics, University of Washington, Seattle, Wash. (50). 1910. **B**

*Osborn, Henry Fairfield, Ph. D., Sc. D., LL. D., President, American Museum of Natural History, New York, N. Y. (29). 1883. **E F**

*Osborn, Henry Leslie, Ph. D., Professor of Zoology, Hamline University, St. Paul, Minn. (52). 1906. **F**

*Osborn, Herbert, Professor of Zoology and Entomology, Ohio State University, Columbus, Ohio. (32). 1884. **F**

Osborn, Herbert Tirrill, care Experiment Station, H. S. P. A., Honolulu, Hawaii. (63). **F**

Osborn, Lynn W., College of Agriculture, Fayetteville, Ark. (65). **M**

Osborn, Ralph, De Witt Clinton High School, New York, N. Y. (60). **F G**

Osborn, William Church, 71 Broadway, New York, N. Y. (57).

*Osborne, George Abbott, Emeritus Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass. (50). 1903. **A**

Osborne, Loyall Allen, E. E., Manager, Westinghouse Electric and Manufacturing Co. Works, Pittsburgh, Pa. (50). **D**

*Osburn, Raymond Carroll, Ph. D., Asst. Professor of Zoology, Barnard College, Columbia University, New York, N. Y. (50). 1906. **F**

Osgood, Alfred Townsend, M. D., 40 East 41st St., New York, N. Y. (57). **K**

Osgood, George Draper, 221 Beacon St., Boston, Mass. (63).

Osgood, Joseph B. F., P. O. Box 212, Salem, Mass. (31). **C**

Osgood, Paul M., Hotel Woodbridge, West Somerville, Mass. (60). **C**

*Osgood, Wilfred Hudson, Field Museum of Natural History, Chicago, Ill. (52). 1905. **F**

O'Shaughnessy, Louis, C. E., Ph. D., Department of Mathematics, University of Pennsylvania, Philadelphia, Pa. (63). **A**

*O'Shea, Michael Vincent, Professor of Education, University of Wisconsin, Madison, Wis. (53). 1907. **H I L**

Oskamp, Joseph, Agricultural Experiment Station, La Fayette, Ind. (64). **G**

*Osmun, A. Vincent, Assistant Professor of Botany, Massachusetts Agricultural College, Amherst, Mass. (60). 1915. **G**

Osner, George A., New York State College of Agriculture, Ithaca, N. Y. (62). **G**

*Osterhout, George E., Windsor, Colo. (60). 1911. **G**

*Osterhout, Winthrop John Vanleuven, Ph. D., Professor of Botany, Harvard University, Cambridge, Mass. (61). 1911. **G**

*Osterud, Hjalmar L., Professor of Zoology, University of Washington, Seattle, Wash. (64). 1915. **F**

Otis, Charles Herbert, 116 Ferris Place, Ithaca, N. Y. (64). **G**

*Ott, Isaac, M. D., Easton, Pa. (54). 1906. **K**

Ottenberg, Reuben, M. D., 15 West 89th St., New York, N. Y. (64). **K**

Ottley, Miss Alice M., Department of Botany, Wellesley College, Wellesley, Mass. (61). **G**

Overlock, Melvin G., M. D., 91 Chandler St., Worcester, Mass. (60). **K**

*Overton, James Bertram, Ph. D., Associate Professor of Plant Physiology, University of Wisconsin, Madison, Wis. (52). 1906. **G**

*Owen, Charles Lorin, Assistant Curator, Field Museum of Natural History, Chicago, Ill. (50). 1902. H

Owen, Ethel, 2737 Clay St., San Francisco, Cal. (66).

Owen, Ira J., M. E., 1202 Marquette Building, Chicago, Ill. (58). D

*OWEN, Miss JULIETTE A., 306 North Ninth St., St. Joseph, Mo. (50). 1906. F

*OWEN, MISS LUELLA AGNES, 306 North Ninth St., St. Joseph, Mo. (47). 1911. E H

OWEN, MISS MARY ALICIA, 306 North Ninth St., St. Joseph, Mo. (50). H

*Owen, Thomas McAdory, LL. D., Director, Alabama State Department of Archives and History, Montgomery, Ala. (60). 1913. H

Owen, William Bishop, Ph. D., Principal, Chicago Normal School, Chicago, Ill. (62). L

*Owens, Robert Bowie, Sc. D., E. E., Secretary, Franklin Institute, Philadelphia, Pa. (65). 1915. D

Owens, William Gundy, Professor of Chemistry and Physics, Bucknell University, Lewisburg, Pa. (50). B C

*Pace, Lula, Ph. D., 1422 South 8th St., Waco, Texas. (63). 1912. G

*Pack, Frederick James, Ph. D., Deseret Professor of Geology, University of Utah, Salt Lake City, Utah. (54). 1911. E

Pack, Herbert J., 532 East 12th South St., Salt Lake City, Utah. (66).

Packard, Earl L., 1522 Grove St., Berkeley, Cal. (65). E

Packard, Roscoe Milliken, 512 Albany Building, Boston, Mass. (64).

Packard, Walter E., Imperial Valley Sub-station, El Centro, Cal. (66). M

*Paddock, Wendell, Professor of Horticulture, Ohio State University, Columbus, Ohio. (50). 1901. G

Page, Alexander G., 2618 Haste St., Berkeley, Cal. (60). C

PAGE, CLARENCE V., C. E., E. M., P. O. Box 922, Butte, Mont. (51). D E

PAGE, DR. DUDLEY L., 94 Merrimack St., Lowell, Mass. (33). F

Page, Edward Day, Oakland, N. J. (57). I

*Page, James Morris, Ph. D., Professor of Mathematics, University of Virginia, Charlottesville, Va. (58). 1909. A

*Page, Logan Waller, U. S. Department of Agriculture, Washington, D. C. (52). 1911. C M

PAGE, MRS. NELLIE K., 636 Rogers St., Lowell, Mass. (33). F

Page, S. Davis, West End Trust Building, Philadelphia, Pa. (66).

*Paige, Sidney, U. S. Geological Survey, Washington, D. C. (63). 1913. E

Paine, Arthur E., Huntington Beach, Cal. (65).

Paine, Mrs. Clinton P., 1115 St. Paul St., Baltimore, Md. (60).

*Paine, Cyrus Fay, 520 East Ave., Rochester, N. Y. (12). 1874. A B

Painter, Theophilus S., Ph. D., Osborn Zoological Laboratory, New Haven, Conn. (64). F

*PALACHE, CHARLES, Ph. D., Professor of Mineralogy, University Museum, Cambridge, Mass. (44). 1896. E

*Palmer, Albert de Forest, Ph. D., Associate Professor of Physics, Brown University, Providence, R. I. (47). 1900. A B

Palmer, C. L., M. D., Diamond Bank Building, Pittsburgh, Pa. (66). K

*Palmer, Charles Skeele, Ph. D., 23 Park Place, Newtonville, Mass. (50). 1901. **C L**

Palmer, Claud Irwin, 6440 Greenwood Ave., Chicago, Ill. (60). **L**

PALMER, MRS. ELIZABETH P., 215 North 4th St., Stillwater, Minn. (66). **I**

Palmer, Erik S., P. O. Box 79, Winter Park, Fla. (64).

Palmer, Ezra, M. D., 1 Van Buren Hall, Trinity Court, Boston, Mass. (51). **K**

Palmer, Frederic, Jr., Associate Professor of Physics, Haverford College, Haverford, Pa. (65). **B**

Palmer, Harry Mitchell, E. E., 71 Hazelwood Ave., Pittsburgh, Pa. (60). **D**

Palmer, Mrs. Potter, 1350 Lake Shore Drive, Chicago, Ill. (65).

*Palmer, Theodore Sherman, M. D., 1939 Biltmore St. N. W., Washington, D. C. (58). 1911. **F**

Palmer, William Carl, 1115 4th Ave., South, Fargo, N. D. (60). **C E**

*Paltsits, Hon. Victor Hugo, 1855 Morris Ave., New York, N. Y. (51). 1913. **H I**

*Pammel, Louis Hermann, Ph. D., Professor of Botany, Iowa State College, Ames, Iowa. (39). 1892. **G**

*Pappenheimer, Alwin M., M. D., Professor of Pathology, College of Physicians and Surgeons, New York, N. Y. (62). 1911. **K**

Papperman, Gustav Adolph, Ph. D., Lockport, N. Y. (63).

Pardee, Frank, Hazleton, Pa. (62). **D G**

Pardee, Walter Stone, Groveland and Lyndale Aves., Minneapolis, Minn. (62). **D**

Parham, Frederick William, M. D., 1429 Seventh St., New Orleans, La. (55). **K**

PARISH, HENRY, 52 Wall St., New York, N. Y. (49).

*Parish, Samuel Bonsall, 772 D St., San Bernardino, Cal. (65). 1915. **G**

*Park, Charles F., Professor of Mechanism, Massachusetts Institute of Technology, Boston, Mass. (60). 1915. **D L**

Park, Jay Boardman, 330 Hyde Park Ave., Jamaica Plain, Boston, Mass. (64). **C**

*Park, William Hallock, M. D., Professor of Bacteriology and Hygiene, N. Y. University Medical College, New York, N. Y. (51). 1903. **K**

Parker, Delos L., M. D., 559 Jefferson Ave., Detroit, Mich. (60). **K**

Parker, Edward Mason, M. D., 1726 M St., N. W., Washington, D. C. (62). **K**

*Parker, George Howard, Sc. D., Professor of Zoology, Harvard University, Cambridge, Mass. (50). 1901. **F K**

Parker, Gordon, U. S. Forest Service, Mancos, Colo. (66). **M**

*PARKER, HERSCHEL CLIFFORD, Ph. D., Adjunct Professor of Physics, Columbia University, New York, N. Y. (43). 1900. **B**

Parker, John Bernard, Catholic University of America, Washington, D. C. (63).

Parker, John Huntington, 1815 Belmont Road, N. W. Washington, D. C. (65). **G**

*Parker, Matthew A., Professor of Chemistry, University of Manitoba, Winnipeg, Canada. (58). 1911. **C**

Parker, William M., East Side High School, Denver, Colo. (63). **B**

Parkhurst, Frederic A., M. E., 52 Gladstone Ave., Detroit, Mich. (60). **D**

*Parkhurst, John Adelbert, Instructor in Practical Astronomy, Yerkes Observatory, Williams Bay, Wis. (58). 1910. **A**

*Parkins, Almon Ernest, 10 Allen Place, Columbia, Mo. (60). 1915. **E**

*Parks, Charles Wellman, U. S. N., Public Works Officer, Naval Station, Pearl Harbor, Hawaii. (50). 1897. **B D E**

Parman, Daniel Cleveland, P. O. Box 393, Uvalde, Texas. (62). **F**

*Parmelee, Maurice, Ph. D., College of the City of New York, New York, N. Y. (63). 1913. **H I**

*Parmenter, George Freeman, Ph. D., Professor of Chemistry, Colby College, Waterville, Me. (58). 1911. **C**

*Parr, Harry Lilienthal, M. E., Assistant Professor of Mechanical Engineering, Columbia University, New York, N. Y. (63). 1915. **D**

*Parr, Samuel Wilson, Professor of Applied Chemistry, University of Illinois. Urbana, Ill. (55). 1908. **C**

Parrish, Celestia Susannah, Department of Education, Atlanta, Ga. (65). **H L**

Parrish, James Cresson, Shinnecock Hills, Southampton, L. I., N. Y. (65).

*Parrott, Percival John, Professor of Entomology, New York Agricultural Experiment Station, Geneva, N. Y. (60). 1913. **F**

*Parsons, Arthur Leonard, University of Toronto, Toronto, Canada. (53). 1911. **E**

*Parsons, Charles Lathrop, Sc. D., D. C., Chief Mineral Chemist, U. S. Bureau of Mines, Washington, D. C. (41). 1896. **C**

Parsons, Charles W., 30 West 94th St., New York, N. Y. (57).

PARSONS, FRANCIS H., 210 1st St., S. E., Washington, D. C. (52).

Parsons, Hon. Herbert, 115 East 72d St., New York, N. Y. (57).

Partch, Clarence Elmar, 829 29th St., Des Moines, Iowa. (63).

Partridge, Edward Anson, Ph. D., Head, Department of Science, Central Manual Training High School, Philadelphia, Pa. (58). **A B**

Partridge, Ernest D., Brigham Young University, Provo, Utah. (66).

Partridge, Newton L., 406 East Healy Ave., Champaign, Ill. (64). **F**

Pascal, Henry S., M. D., The Adlon, 200 West 54th St., New York, N. Y. (60). **K**

Pastorius, Charles Sharpless, 415 North Cascade Ave., Colorado Springs, Colo. (51).

*Patch, Edith Marion, Ph. D., Entomologist, Maine Agricultural Experiment Station, Orono, Me. (58). 1913. **F**

Patch, James Bradford, 40 Howard St., Millville, N. J. (63).

Patera, Frank J., M. D., 1647 Clifton Park Ave., Chicago, Ill. (60). **K**

Patitz, J. F. Max, M. E., 473 38th St., Milwaukee, Wis. (60). **D**

Paton, Miss Julia Bayles, 97 Brownell St., New Haven, Conn. (64). **G**

*Paton, Stewart, M. D., Princeton, N. J. (50). 1902. **F K**

Paton, William Agnew, care David Eaton, Princeton, N. J. (57).

Patrick, Frank, 421 Bonfils Building, Kansas City, Mo. (50). **F G**

*Patten, Andrew J., Professor of Chemistry, Michigan Agricultural College, East Lansing, Mich. (62). 1915. **C**

Patten, Frank Chauncy, Librarian, Rosenberg Library, Galveston, Texas. (53). **I**

Patten, Miss Jane Boit, South Natick, Mass. (55). **G**

PATTEN, JOHN, President, Patten Vacuum Ice Machine Co., 40 South Front St., Baltimore, Md. (43).

*Patten, William, Ph. D., Professor of Biology, Dartmouth College, Hanover, N. H. (58). 1910. **F**

*Patterson, Andrew Henry, Professor of Physics, University of North Carolina, Chapel Hill, N. C. (51). 1906. **B**

*Patterson, Austin McDowell, Ph. D., Xenia, Ohio. (51). 1906. **C**

Patterson, Charles Waggener, 6539 Greenwood Ave., Chicago, Ill. (58). **C**

*Patterson, Mrs. Flora Wambaugh, U. S. Department of Agriculture, Washington, D. C. (44). 1909. **G**

*Patterson, George Washington, Ph. D., Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich. (44). 1896. **A B D**

Patterson, Guillermo, Jr., Apartado 116, Panama City, Panama, C. A. (58). **C D K**

*Patterson, Harry Jacob, Sc. D., President, Maryland Agricultural Experiment Station, College Park, Md. (36). 1890. **C M**

Patterson, J. Edward, Pensauken, N. J. (66). **C F**

Patterson, John C., M. D., 177 Union Ave., Batavia, Ill. (60). **K**

*Patterson, John Thomas, Ph. D., Adjunct Professor of Zoology, University of Texas, Austin, Texas. (61). 1913. **F**

Patterson, T. H. Hoge, 4231 Walnut St., Philadelphia, Pa. (65).

Patterson, Thomas Leon, Professor of Biology, University of Maryland, Baltimore, Md. (61). **F**

Patthey, Henry L., 2622 Clinton Ave., Minneapolis, Minn. (56).

*Pattillo, Nathan Allen, Ph. D., Professor of Mathematics, Randolph-Macon Woman's College, College Park, Va. (60). 1915. **A**

Pattison, Charles E., 1182 Broadway, New York, N. Y. (57). **D**

*Patton, Horace Bushnell, Ph. D., Professor of Geology and Mineralogy, Colorado School of Mines, Golden, Colo. (37). 1901. **E**

Patton, Leicester, Food and Drug Laboratory, 230 Federal Building, Buffalo, N. Y. (60). **C**

Patton, William Augustus, Radnor, Pa. (65).

*Paul, Henry Martyn, U. S. N., The Ontario, Washington, D. C. (33). 1885. **A B**

Paull, Leslie Fairbanks, Associate Professor of Horticulture, State Agricultural College, Fort Collins, Colo. (54). **G**

Paullin, J. Edgar, M. D., 612–614 Peters Building, Atlanta, Ga. (62). **K**

Paulsen, Thomas Christian, 506 Government St., Baton Rouge, La. (61). **K**

*Payne, Bruce Ryburn, Ph. D., President, George Peabody College for Teachers, Nashville, Tenn. (55). 1907. **H L**

*Payne, Fernandus, Assistant Professor of Zoology, Indiana University, Bloomington, Ind. (65). 1915. **F**

Payne, Henry Mace, Sc. D., Ph. D., P. O. Box 427, Southold, L. I., N. Y. (58). **D E**

*Peabody, Charles, Ph. D., Peabody Museum, Cambridge, Mass. (58). 1908. **H**

Peabody, George A., 9203 Union St., Cleveland, Ohio. (63).

Peabody, George Foster, LL. D., Saratoga Springs, N. Y. (50).

*Peabody, James Edward, Scarsdale, N. Y. (61). 1913. **F**

Peabody, Mary Brown, All Saints School, Sioux Falls, S. D. (52). **F G**

*Pearce, Edward Douglas, P. O. Box 977, Providence, R. I. (57). 1908. **C**

*Pearce, Haywood Jefferson, Ph. D., President, Brenau College, Gainesville, Ga. (63). 1914. **H**

*Pearce, James Edwin, Principal, Austin High School, Austin, Texas. (51). 1913. **H**

*Pearce, Richard Mills, Jr., M. D., Professor of Research Medicine, University of Pennsylvania, Philadelphia, Pa. (56). 1911. **K**

*Pearl, Raymond, Ph. D., Professor of Biology, Maine Agricultural Experiment Station, Orono, Me. (53). 1905. **F**

*Pearse, Arthur Sperry, Ph. D., Associate Professor of Zoology, University of Wisconsin, Madison, Wis. (54). 1910. **F**

Pearson, Gustaf Adolph, U. S. Forest Service, Flagstaff, Ariz. (60). **G M**

*Pearson, Henry Carr, Principal, Horace Mann School, 501 West 120th St., New York, N. Y. (58). 1910. **L**

Pearson, John T., 900 Torrey Building, Duluth, Minn. (65).

Pearson, Preston W., M. D., Emory, Texas. (60). **K**

*Pearson, Raymond Allen, LL. D., President, Iowa State College, Ames, Iowa. (49). 1901. **I**

*Peary, Robert Edwin, LL. D., Rear Admiral, U. S. N., Retired, Army and Navy Club, Washington, D. C. (63). 1915. **A D**

Pease, Miss Clara A., Public High School, Hartford, Conn. (47). **E**

Pease, Elizabeth De Kalb, Brookline High School, Brookline, Mass. (66). **M**

Pease, Frederic N., P. O. Box 503, Altoona, Pa. (58). **C**

Pease, Herbert Dodge, M. D., 39 West 38th St., New York, N. Y. (63). **K**

Peaslee, Leon Denning, Ph. D., Curator of Education, Public Museum, Milwaukee, Wis. (63). **E F**

Peavy, George Wilcox, Head, Department of Forestry, Oregon State Agricultural College, Corvallis, Ore. (63). **G M**

Peck, Charles E., 2 East 45th St., New York, N. Y. (57).

*PECK, CHARLES HORTON, Sc. D., State Botanist, Geological Hall, Albany, N. Y. (52). 1906. **G**

*Peck, Frederick Burritt, Ph. D., Professor of Mineralogy and Geology, Lafayette College, Easton, Pa. (49). 1907. **E**

Peck, James E., Calexico, Cal. (65).

Peck, John Sedgwick, E. E., 4 Groby Place, Altrincham, England. (60). **D**

*Peck, Samuel S., 3741 Waialae Road, Honolulu, Hawaii. (58). 1911. **C**

Peck, William Adorno, C. E., 1643 Champa St., Denver, Colo. (19). **D**

*Peckham, William Clark, Professor of Physics, Adelphi College, Brooklyn, N. Y. (54). 1906. **A B**

Pedersen, James, M. D., 40 East 41st St., New York, N. Y. (57). **K**

*Peebles, Florence, Ph. D., Professor of Biology, Newcomb College, Tulane University, New Orleans, La. (62). 1913. **F**

*Peed, Mansfield Theodore, Professor of Mathematics and Astronomy, Emory College, Oxford, Ga. (53). 1909. **A**

Peek, William A., M. D., 1403 Lewis St., Helena, Mont. (60). **K**

Peet, Charles Emerson, Lewis Institute, Chicago, Ill. (58).

Peffer, Elmer L., 5619 Colorado Ave., N. W., Washington, D. C. (63). **B**

*Pegram, George Braxton, Ph. D., Assistant Professor of Physics, Columbia University, New York, N. Y. (52). 1905. **B**

Pegram, George Herndon, C. E., 223 Vose Ave., South Orange, N. J. (62). **D**

Peirce, George, 721 Euclid Ave., Roland Park, Baltimore, Md. (64). **C K**

*Peirce, George James, Ph. D., Professor of Botany, Leland Stanford Junior University, Stanford University, Cal. (44). 1897. **G**

*Peirce, Harold, 222 Drexel Building, Philadelphia, Pa. (33). 1913. **H I**

Peirson, Charles L., 191 Commonwealth Ave., Boston, Mass. (60).

Pelo, William J., Editor, Silver, Burdett and Co., 221 Columbus Ave., Boston, Mass. (60). **L**

*Pember, Frederick R., Assistant Plant Physiologist, Rhode Island Agricultural Experiment Station, Kingston, R. I. (58). 1911. **G**

Pemberton, Ralph, M. D., 2224 Locust St., Philadelphia, Pa. (60). **K**

Pendleton, Edwin Conway, Rear-Admiral, U. S. N., Windermere Hotel, Philadelphia, Pa. (65).

*Pendleton, Ellen Fitz, LL. D., President, Wellesley College, Wellesley, Mass. (60). 1915. **A**

Pendleton, Francis Key, 7 East 86th St., New York, N. Y. (57).

Pendleton, Frank E., M. E., 140 Cedar St., New York, N. Y. (60). **D**

Pendleton, Robert L., 2342 Eunice St., Berkeley, Cal. (65).

Pennell, William W., M. D., 205 North Main St., Mt. Vernon, Ohio. (51). **K**

Penney, Rupert L., M. E., 80 Willard St., Westville Station, New Haven, Conn. (58). **D**

PENNIMAN, JOSIAH HARMAR, Ph. D., LL. D., Vice-Provost, University of Pennsylvania, Philadelphia, Pa. (65).

*Pennington, Leigh H., Ph. D., Professor of Botany, N. Y. State College of Forestry, Syracuse, N. Y. (62). 1915. **G**

*Pennington, Mary Engle, Ph. D., 405 Lancaster Ave., St. Davids, Pa. (47). 1900. **C F G K**

Penny, Charles L., Professor of Agricultural Chemistry, Delaware College, Newark, Del. (60). **C**

*Penrose, Charles Bingham, M. D., Ph. D., LL. D., 1720 Spruce St., Philadelphia, Pa. (51). 1911. **B E F K**

Penrose, Clement A., M. D., 21 West Mt. Royal Ave., Baltimore, Md. (60). **K**

*PENROSE, RICHARD ALEXANDER FULLERTON, JR., Ph. D., 460 Bullitt Building, Philadelphia, Pa. (38). 1890. **E**

PENTECOST, CAPT. E. H., Barrack Tor, Topsfield, Mass. (60).

PENTECOST, MRS. CAPT. E. H., Barrack Tor, Topsfield, Mass. (60).

*Pepper, George Hubbard, 10 East 33d St., New York, N. Y. (48). 1900. **H**

*Perisho, Ellwood Chappell, LL. D., Professor of Geology, S. D. State College of A. and M. Arts, Brookings, S. D. (61). 1911. **E**

PERKINS, ARTHUR, 14 State St., Hartford, Conn. (31). **A B**

*Perkins, Frank Walley, The Farragut, Washington, D. C. (52). 1911. **B**

Perkins, G. Howard, Jr., 5 Irving Terrace, Cambridge, Mass. (63).

*Perkins, George Henry, Ph. D., LL. D., Professor of Geology, University of Vermont, Burlington, Vt. (17). 1882. **E H**

*Perkins, Henry Augustus, Professor of Physics, Trinity College, Hartford, Conn. (63). 1913. **B**

Perkins, Henry Cleveland, E. M., 1701 Connecticut Ave., Washington, D. C. (60). **D**

*Perkins, Henry Farnham, Ph. D., Professor of Zoology, University of Vermont, Burlington, Vt. (52). 1909. **F**

Perkins, Jacob Henry, M. D., Gassilis Ave., Armour Villa Park, Bronxville, N. Y. (60). **I**

*Perkins, R. C. L., Sc. D., Park Hill House, Paignton, South Devon, England. (58). 1913. **F**

*Perkins, Roger Griswold, M. D., 1481 East Boulevard, Cleveland, Ohio. (64). 1915. **K**

PERKINS, WILLIAM H., Park Avenue Hotel, New York, N. Y. (57).

*PERRINE, CHARLES DILLON, Sc. D., Astronomer, Observatorio Nacional, Cordoba, Argentina, S. A. (51). 1903. **A**

*Perrine, Irving, Ph. D., Associate Professor of Geology, University of Oklahoma, Norman, Okla. (65). 1915. **E**

Perrine, Miss Lura L., 609 Normal Ave., Valley City, N. D. (47). **E F G H**

Perritt, Louisa Ellen, care Dr. F. C. Gates, 933 High St., Grinnell, Iowa. (63). **H K**

*Perrow, Mosby Garland, Ph. D., Lynchburg, Va. (58). 1911. **C G L**

*Perry, Arthur C., 226 Halsey St., Brooklyn, N. Y. (43). 1896. **A B**

Perry, Thomas Sergeant, 312 Marlborough St., Boston, Mass. (50). **I**

Pershing, Howell Terry, M. D., LL. D., 1169 Race St., Denver, Colo. (54). **K**

Peskind, Arnold, M. D., 2414 East 55th St., Cleveland, Ohio. (51). **K**

*Peter, Alfred Meredith, Professor of Soil Technology, Kentucky Agricultural Experiment Station, Lexington, Ky. (57). 1911. **C**

*Peters, Amos William, Ph. D., Biochemist, Research Department, Training School for Feeble Minded Children, Vineland, N. J. (53). 1908. **F K**

Peters, Charles Adams, Ph. D., South Sunset Ave., Amherst, Mass. (63). **C**

Peters, Prof. Clayton Ames, Polytechnic Institute, Brooklyn, N. Y. (46). **B G**

Peters, Edward Dyer, E. M., Professor of Metallurgy, Harvard University, Cambridge, Mass. (60). **D**

*Peters, Edward T., Box 1, Station H, Washington, D. C. (33). 1889. **I**

*Peters, George Henry, U. S. Naval Observatory, Washington, D. C. (60). 1913. **B**

*Peters, William John, 405 The Ontario, Washington, D. C. (57). 1909. **B**

Petersen, Niels Frederick, Plainview, Nebr. (50). **G**

Peterson, Alfred Olaf, M. D., 203 Ramge Building, Omaha, Nebr. (64). **K**

Peterson, Elmer George, Ph. D., Professor of Bacteriology and Physiology, Agricultural College of Utah, Logan, Utah. (63). **K**

*Peterson, Frederick, M. D., Ph. D., 20 West 50th St., New York, N. Y. (49). 1901. **F K**

Peterson, Henry, Sandy, Utah. (65).

Peterson, John C., Tooele, Utah. (66).

*Peterson, Joseph, Ph. D., Professor of Psychology, University of Utah, Salt Lake City, Utah. (58). 1911. **H**

*Peterson, Olof August, Carnegie Museum, Pittsburgh, Pa. (55). 1911. **F**

*Peterson, William, Professor of Geology and Mineralogy, Agricultural College of Utah, Logan, Utah. (64). 1915. **E**

Peterson, William A., Superintendent, U. S. Experiment Farm, Mandan, N. D. (60). **G**

*Petrunkévitch, Alexander, Ph. D., Zoological Laboratory, New Haven, Conn. (54). 1906. **F**

Petry, Edward Jacob, 267 Wood St., West La Fayette, Ind. (63). **C G**

*Petry, Loren Clifford, Department of Botany, Syracuse University, Syracuse, N. Y. (63). 1915. **G**

*Pettee, Charles Holmes, Dean and Professor of Mathematics, New Hampshire College, Durham, N. H. (47). 1908. **A**

Pettee, Charles L. W., care Hartford Laboratory Co., Hartford, Conn (58). **C**

Petterson, Christian A., 3922 Lowell Ave., Chicago, Ill. (52). **A L**

Pettibone, Chauncey J. V., M. D., University of Minnesota, Minneapolis, Minn. (64). **K**

Pettigrew, Charles Louis, 528-29 Grant Building, Atlanta, Ga. (65). **A B**

*Pettit, Rufus Hiram, Professor of Entomology, Michigan Agricultural College, East Lansing, Mich. (56). 1913. **F**

Pfeiffer, Felix, M. D., 943 Madison Ave., New York, N. Y. (63). **K**

*Pfeiffer, Norma Etta, Department of Biology, University of North Dakota, Grand Forks, N. D. (62). 1915. **G**

*Pfeiffer, Wanda May, Ph. D., University of Chicago, Chicago, Ill. (60): 1915. **G**

Pfister, Joseph Clement, Professor of Physics, Columbia University, New York, N. Y. (58). **A B D**

Pfordte, Otto F., E. M., Cairo, N. Y. (57). **E**

*Phelps, Earle Bernard, Hygienic Laboratory, Washington, D. C. (60). 1911. **C**

*Phelps, Edward Bunnell, Editor, *The American Underwriter*, 500 West 122d St., New York, N. Y. (62). 1915. **I**

Phelps, Gurley S., U. S. Engineer Office, Toledo, Ohio. (63).

*Phelps, Isaac King, Ph. D., Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (60). 1911. **C**

*Phillips, Alexander Hamilton, Sc. D., 54 Hodge Road, Princeton, N. J. (58). 1911. **F**

*Phillips, Everett Franklin, Ph. D., Bureau of Entomology, U. S. Department of Agriculture, Washington, D. C. (58). 1910. **F**

*PHILLIPS, FRANCIS CLIFFORD, Ph. D., Professor of Chemistry, University of Pittsburgh, Pittsburgh, Pa. (36). 1889. **C**

Phillips, G. C., 10 High St., Auburn, Me. (63). **C**

*PHILLIPS, JOHN C., M. D., Windyknob, Wenham, Mass. (52). 1913. **F K**

*Phillips, John Lloyd, P. O. Box 78, Staunton, Va. (52). 1906. **F**

Phillips, Paul C., M. D., Professor of Physical Education and Hygiene, Amherst College, Amherst, Mass. (63). **K**

Phillips, Miss Ruth Laura, Western College, Oxford, Ohio. (64). **F**

Phillips, William F. R., M. D., Professor of Anatomy, School of Medicine, University of Alabama, Mobile, Ala. (62). **K**

*Phillips, William J., U. S. Entomological Laboratory, Charlottesville, Va. (60). 1915. **F**

*Phipps, Henry, 1063 Fifth Ave., New York, N. Y. (57). 1915. **I**

PHIPPS, LAWRENCE COWLE, C. E., 1154 Colfax Ave., Denver, Colo. (51). **D**

Picard, Maurice, 97 West 163d St., New York, N. Y. (63). **F G**

Pickard, Greenleaf Whittier, E. E., Amesbury, Mass. (63). **D**

*Pickering, Edward Charles, Sc. D., Ph. D., LL. D., Director, Astronomical Observatory, Harvard College, Cambridge, Mass. (18). 1875. **A B**

*Pickett, Fermen Layton, Associate Professor of Plant Physiology, State College of Washington, Pullman, Wash. (65). 1915. **G**

Pickett, William Douglas, 228 Campsie Place, Lexington, Ky. (41). **D I**
Pickman, Dudley L., 98 Beacon St., Boston, Mass. (60).
Pierce, Alfred Lawrence, E. E., 65 South Elm St., Wallingford, Conn. (58). **D**
Pierce, Miss Bessie Gillespie, 11th and Fayette Avenues, Conshohocken, Pa. (54). **C**
Pierce, Francis Leslie, U. S. Department of Agriculture, Washington, D. C. (63). **G**
*PIERCE, NEWTON BARRIS, Pacific Coast Laboratory, U. S. Department of Agriculture, Santa Ana, Cal. (49). 1901. **G**
Pierce, Sloan J., R. F. D. 4, Warren, Ohio. (50). **E**
*Pierce, W. Dwight, U. S. Department of Agriculture, Washington, D. C. (58). 1913. **F**
Pierrepont, John Jay, 1 Pierrepont Place, Brooklyn, N. Y. (57). **A**
*Piersol, George Arthur, M. D., Sc. D., Professor of Anatomy, University of Pennsylvania, Philadelphia, Pa. (50). 1902. **F K**
Piersol, Dr. W. H., 26 Albany Ave., Toronto, Canada. (63).
*Pieters, Adrian John, Department of Botany, University of Michigan, Ann Arbor, Mich. (58). 1909. **G**
*Pike, Frank Henry, Ph. D., Assistant Professor of Physiology, Columbia University, New York, N. Y. (57). 1910. **F K**
Pikler, Armin Henry, E. E., Üllöi-ut 30, Budapest, Hungary. (57). **B C D**
*Pillsbury, John Elliot, Rear Admiral, U. S. N., 1755 Q St., N. W., Washington, D. C. (33). 1898. **B D E**
Pillsbury, Joshua P., Professor of Horticulture, North Carolina College of A. and M. Arts, West Raleigh, N. C. (64). **G**
*Pillsbury, Walter Bowers, Ph. D., Professor of Psychology, University of Michigan, Ann Arbor, Mich. (64). 1913. **H**
Pilsbry, Henry Augustus, Sc. D., 23 Bala Ave., Bala, Pa. (66). **E F**
*Pinchot, Gifford, Sc. D., LL. D., 1615 Rhode Island Ave., Washington, D. C. (47). 1899. **G**
Ping, C., 107 Harvard Place, Ithaca, N. Y. (65).
Pinkerton, Thomas C., care Baugh & Son, Morris St. Wharf, Philadelphia, Pa. (60). **C**
Pinkus, Frederick S., 70 East 56th St., New York N. Y. (57).
Pinney, Mrs. Augusta Robinson, 178 Main St., Orange, N. J. (44). **F G**
*Pintner, Rudolf, Ph. D., Ohio State University, Columbus, Ohio. (64). 1914. **H L**
*Piper, Charles Vancouver, U. S. Department of Agriculture, Washington, D. C. (53). 1905. **F G**
Pirtle, George W., M. D., Carlisle, Ind. (60). **K**
Pitkin, Walter B., Associate Professor of Philosophy, Columbia University, New York, N. Y. (58). **L**
*Pittier, H., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (58). 1910. **E G H**
Pitts, Thomas Dorsey, 2432 North Charles St., Baltimore, Md. (51). **B**

Plagge, Herbert J., Station A, Ames, Iowa. (61).

*Plant, Prof. Louis Clark, Michigan Agricultural College, East Lansing, Mich. (63). 1914. **A**

Plapp, Frederick William, 4140 North Keeler Ave., Irving Park Station, Chicago, Ill. (52). **E F G L**

Platt, Charles, M. D., Ph. D., Hamilton Court, 39th and Chestnut Sts., Philadelphia, Pa. (58). **C K**

Platt, Harold Birdsall, 423 West 118th St., New York, N. Y. (60).

Plaut, Albert, 28 East 76th St., New York, N. Y. (50).

Pleasants, J. Hall, M. D., 806 University Parkway, Baltimore, Md. (60). **K**

*Plimpton, George Arthur, 70 Fifth Ave., New York, N. Y. (47). 1907. **A**

*Plowman, Amon Benton, Ph. D., Carroll College, Waukesha, Wis. (50). 1911. **B**

Plunkett, Charles Timothy, Vice-President, Cotton Manufacturing Co., Adams, Mass. (60). **D**

Poats, Thomas Grayson, Associate Professor of Physics, Clemson Agricultural College, Clemson College, S. C. (50). **B**

Podlesak, Henry Joseph, E. E., 1636 Millard Ave., Chicago, Ill. (60). **D**

Poetschke, Paul, Department of Chemistry, L. D. Caulk Co., Milford, Del. (60). **C**

*Poffenberger, Albert Theodore, Jr., Columbia University, New York, N. Y. (65). 1915. **H**

Pogue, Grace Luella, State Normal School, Lewiston, Idaho. (63). **C**

*Pogue, Joseph E., Ph. D., Associate Professor of Geology and Mineralogy, Northwestern University, Evanston, Ill. (62). 1911. **E**

Pogue, Mary E., M. D., Lake Geneva, Wis. (58). **K**

*Pohlman, Augustus Grote, M. D., Professor of Anatomy, St. Louis University School of Medicine, St. Louis, Mo. (58). 1913. **F**

Pole, Arminius C., M. D., 2038 Madison Ave., Baltimore, Md. (51). **H K**

Polk, William Mecklenberg, M. D., LL. D., 310 Fifth Ave., New York, N. Y. (57). **K**

Pollak, Francis Deak, 55 West 73d St., New York, N. Y. (57).

*Pollard, Charles Louis, Curator, Staten Island Association of Arts and Sciences, New Brighton, N. Y. (44). 1899. **F G**

*Pollitzer, Sigmund, M. D., 51 East 60th St., New York, N. Y. (55). 1911. **K**

*Pollock, James Barkley, Sc. D., Assistant Professor of Botany, University of Michigan, Ann Arbor, Mich. (58). 1909. **G**

Pomainville, Frank, M. D., Grand Rapids, Wis. (60). **K**

Pomeroy, Charles Taylor, Ph. D., 319 Belleville Ave., Newark, N. J. (43). **C**

Pomeroy, Fred E., Professor of Biology, Bates College, Lewiston, Me. (62). **F**

Pomeroy, John C., Iowa State College, Ames, Iowa. (64). **B**

Pomeroy, Robert Watson, 1006–12 Fidelity Building, Buffalo, N. Y. (65).

*Pond, Francis Jones, Ph. D., Professor of Chemistry, Stevens Institute of Technology, Hoboken, N. J. (54). 1906. **C**

*Pond, George Gilbert, Ph. D., Professor of Chemistry, Pennsylvania State College, State College, Pa. (51). 1903. **C**

Pond, Robert S., Ph. D., University of Georgia, Athens, Ga. (62). **A**

Ponzer, Ernest William, Assistant Professor of Mathematics, Leland Stanford Junior University, Stanford University, Cal. (62). **A**

Pool, Frank J., 1906 East 105th St., Cleveland, Ohio. (62). **F**

*Pool, Raymond John, Ph. D., Professor of Botany, University of Nebraska, Lincoln, Nebr. (57). 1911. **G**

*Pool, Miss Venus Worrell, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (62). 1915. **G**

*Poor, Charles Lane, Ph. D., Professor of Celestial Mechanics, Columbia University, New York, N. Y. (55). 1907. **A B**

*Poor, John Merrill, Ph. D., Professor of Astronomy, Dartmouth College, Hanover, N. H. (52). 1906. **A**

Poore, Orson Birney, Hearling High School, Aurora, Minn. (65).

Pope, Curran, M. D., 115 West Chestnut St., Louisville, Ky. (60). **K**

POPE, GEORGE A., Kohl Building, 400 Montgomery St., San Francisco, Cal. (65).

Popoff, Prof. Stephen, 550 Delhi St., Dubuque, Iowa. (65). **B C**

Porter, Mrs. Albert Brown, 1024 Lake Shore Drive, Evanston, Ill. (65).

*Porter, Prof. Carlos E., C. M. Z. S., Casilla 2974, Santiago, Chile, S. A. (64). 1915. **F**

Porter, H. Hobart, E. E., M. E., 52 William St., New York, N. Y. (50). **D**

Porter, Rev. Henry Dwight, D. D., P. O. Box 206, La Mesa, Cal. (65).

Porter, Henry Kirke, LL. D., 1600 I St., Washington, D. C. (50). **D**

Porter, James Edward, Manufacturing Chemist and Analyst, 205 West Genesee St., Syracuse, N. Y. (50). **C**

*Porter, James F., Hubbard Woods, Ill. (58). 1914. **F**

*Porter, James P., Ph. D., Professor of Psychology, Clark University, Worcester, Mass. (60). 1911. **F H L**

Porter, Joseph Yates, M. D., State Health Officer, Jacksonville, Fla. (60). **K**

*Porter, Royal Arthur, Professor of Physics, Syracuse University, Syracuse, N. Y. (54). 1906. **B D**

Porter, Thomas Lansing, Professor of Physics, University of Cincinnati, Cincinnati, Ohio. (58). **B**

Porter, William Henry, M. D., 46 West 83d St., New York, N. Y. (57). **C F K**

Posada, Dr. Juan de la Cruz, E. M., Medillin, Antioquia, Colombia, S. A. (60). **D**

*Posey, Chessley Justin, University of Minnesota, Minneapolis, Minn. (62). 1915. **E**

Posse, Baroness Rose, President, Posse Gymnasium, 779 Beacon St., Boston, Mass. (52).

*Post, Charles Alfred, Bayport, Long Island, N. Y. (49). 1901. **A**

Pott, John N., E. M., 710 No. O St., Tacoma, Wash. (60). **D**

Potter, Albert F., 1307 P St. N. W., Washington, D. C. (62).

*POTTER, ALDEN ARCHIBALD, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (63). 1915. **G**

POTTER, MISS BLANCH, 33 East 38th St., New York, N. Y. (57).

Potter, George Sabine, 1827 Pacific Ave., San Francisco, Cal. (66).

Potter, Mary Goddard, M. D., 39 West 60th St., New York, N. Y. (60). **K**

Potter, Nathan S., Jr., 515 South Second St., Independence, Kans. (60). **C**

*Potts, Louis Maxwell, Ph. D., 2221 No. Charles St., Baltimore, Md. (54). 1906. **B D**

*Pound, Roscoe, Ph. D., LL. D., Professor of Jurisprudence, Harvard Law School, Cambridge, Mass. (54). 1906. **G**

Powel, Colonel de Veaux, 29 Broadway, New York, N. Y. (50). **D E**

Powel, Samuel W., C. E., 679 Auburn Ave., Buffalo, N. Y. (60). **A B C**

Powell, Frederick James, 313 Stuyvesant Park, North, New York, N. Y. (54). **A B D**

Powell, Phillips Bayard, Clinton, N. Y. (58). **F**

*Powell, S. L., Roanoke College, Salem, Va. (61). 1915. **E**

Powell, Thomas, M. D., 922 Washington Building, Los Angeles, Cal. (41). **K**

*Powelson, Wilfred Van Nest, E. E., 60 Wall St., New York, N. Y. (58). 1915. **D**

Power, Frank W., Oregon Nursery Co., Orenco, Oregon. (57). **F G**

*Power, Frederick Belding, Ph. D., LL. D., 535 Warren St., Hudson, N. Y. (31). 1887. **C**

Power, Henry D'Arcy, M. D., Burlingame, Cal. (66). **K**

Power, Walter B., M. D., 233 Cajon St., Redlands, Cal. (62). **K**

Powers, E. O., M. D., Masonic Temple, Baton Rouge, La. (60). **K**

*Powers, Joseph H., Ph. D., Professor of Zoology, University of Nebraska, Lincoln, Neb. (62). 1911. **F**

*Powers, Le Grand, 3357 18th St., Washington, D. C. (51). 1902. **I L**

Poynter, Charles William M., Professor of Anatomy, College of Medicine, Omaha, Neb. (62). **K**

*Praeger, William Emilius, Kalamazoo College, Kalamazoo, Mich. (53). 1911. **F G**

Prager, William Louis, Ph. D., College of the City of New York, New York, N. Y. (62). **C**

Prather, John McClellan, Ph. D., Department of Biology, Soldan High School, St. Louis, Mo. (52). **F**

*Pratt, Alexander, Jr., Ph. D., 1221 Stratford Ave., Bridgeport, Conn. (50). 1913. **H I**

Pratt, Benjamin H., 2143 Rose St., Berkeley, Cal. (66).

*Pratt, Frederick Haven, M. D., 57 Tillinghast Place, Buffalo, N. Y. (56). 1911. **F K L**

*Pratt, Henry Sherring, Ph. D., Professor of Biology, Haverford College, Haverford, Pa. (57). 1909. **F**

Pratt, John Francis, U. S. Coast and Geodetic Survey, 204 Burke Bldg., Seattle, Wash. (54). **A**

Pratt, Joseph Hersey, M. D., 317 Marlborough St., Boston, Mass. (62). **K**

*Pratt, Joseph Hyde, Ph. D., Professor of Economic Geology, University of North Carolina, Chapel Hill, N. C. (49). 1902. **E I**

Pratt, Wallace E., Division of Mines, Bureau of Science, Manila, P. I. (65.

Prendergast, William A., Comptroller, City of New York, New York, N. Y. (58). **I L**

Prentiss, Francis F., 3328 Euclid Ave., Cleveland, Ohio. (63).

Prentiss, Miss Henrietta, 11½ West 84th St., New York, N. Y. (57). **F G**

Prentiss, Henry James, M. D., Iowa City, Iowa. (64). **K**

*Prescott, Samuel Cate, Professor of Biology, Massachusetts Institute of Technology, Boston, Mass. (51). 1906. **C F K**

Price, Abel Fitzwater, M. D., Medical Director, U. S. N., 2233 Q St., Washington, D. C. (60). **K**

Price, Charles P., Manager, American Tar Co., P. O. Box 2705, Boston, Mass. (63). **D**

*Price, Harvey Lee, Adjunct Professor of Horticulture, Agricultural Experiment Station, Blacksburg, Va. (52). 1911. **G**

Price, Homer Charles, Professor of Rural Economics and Dean, College of Agriculture, Ohio State University, Columbus, Ohio. (63). **G M**

Price, J. Meday, Box 12A, R. D. 1, Thermal, Cal. (58). **C D**

Price, Raymond B., care U. S. Rubber Co., 58th St. and Broadway, New York, N. Y. (64).

Price, Robert C., Miller School, Va. (58). **C**

Price, Robert Henderson, R. F. D. 2, Blacksburg, Va. (50). **G**

Price, Weston A., D. D. S., 10406 Euclid Ave., Cleveland, Ohio. (48). **B C**

Price, William Armstrong, Ph. D., W. Va. University Library, Morgantown, W. Va. (64). **E**

Price, William J., Jr., Virginia Polytechnic Institute, Blacksburg, Va. (60). **F**

Pricer, John Lossen, Professor of Biology, Illinois State Normal University, Normal, Ill. (62). **G L**

*Prichard, Margaret S., Philadelphia Normal School, 13th and Spring Garden Sts., Philadelphia, Pa. (60). 1915. **H**

*Priest, Irwin G., Bureau of Standards, Washington, D. C. (63). 1914. **B**

Priest, Prof. Ward C., St. Lawrence University, Canton, N. Y. (63). **B**

*Prince, John Dyneley, Ph. D., Sterlington, N. Y. (49). 1913. **H L**

*Prindle, Louis Marcus, U. S. Geological Survey, Washington, D. C. (55). 1908. **E**

Prinz, Hermann, M. D., Department of Dentistry, University of Pennsylvania, Philadelphia, Pa. (60). **K**

Pritchard, Fred J., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C.

Pritchard, William Broaddus, M. D., 143 West 72d St., New York, N. Y. (51). **H K**

Pritchard, William P., M. D., 923 2d St., Fall River, Mass. (60). **K**

Pritchett, Eliza Esther, 220 West 120th St., New York, N. Y. (62). **G**

*Proctor, Charles Albert, Assistant Professor of Physics, Dartmouth Clolege, Hanover, N. H. (53). 1906. **A B C**

Proffitt, Max J., care Great Western Sugar Co., Denver, Colo. (55). **F**

*Prosser, Charles Smith, Sc. D., Ph. D., Professor of Geology, Ohio State University, Columbus, Ohio. (33). 1891. **E**

Proudfit, Alexander Couper, Princeton, N. J. (47). **I**

*Prouty, William Frederick, Ph. D., Assistant State Geologist and Professor of Geology, University of Alabama, University, Ala. (56). 1911. **E**

Provine, John William, Ph. D., Professor of Chemistry, Mississippi College, Clinton, Miss. (54). **C**

Pryer, Charles, P. O. Box 2, New Rochelle, N. Y. (49).

*Pryor, Joseph William, M. D., 261 North Broadway, Lexington, Ky. (60). 1911. **K**

*Puckner, William August, 535 Dearborn Ave., Chicago, Ill. (58). 1911. **C L**

Puga, Guillermo B., C. E., Avenue 13, No. 2303, Los Pinos, Zacubaya, Mexico, D. F., Mex. (58). **D**

Pullen, Myrick Whiting, Johns Hopkins University, Baltimore, Md. (60). **D**

Pulsifer, Harrie Bridgman, M. E., Armour Institute of Technology, Chicago, Ill. (58). **C E**

*Pumpelly, Prof. Raphael, Newport, R. I. (62). 1911. **E**

Puorro, Michael, Teacher of Biology, Commercial High School, Brooklyn, N. Y. (62). **F**

*PUPIN, MICHAEL I., Sc. D., Ph. D., LL. D., Professor of Electro-Mechanics, Columbia University, New York, N. Y. (44). 1896. **B**

*Purdue, Albert Homer, LL. D., State Geological Survey, Nashville, Tenn. (50). 1906. **E**

Purington, Mrs. Elizabeth H., East Hall, University of California, Berkeley, Cal. (66).

*Puryear, Charles, Professor of Mathematics, Agricultural and Mechanical College of Texas, College Station, Tex. (51). 1906. **A**

*Putnam, Edward K., Acting Director, Davenport Academy of Sciences, Davenport, Iowa. (58). 1909. **H**

*Putnam, Miss Elizabeth D., 2013 Brady St., Davenport, Iowa. (45). 1913. **H**

*Putnam, Frederic Ward, Sc. D., Emeritus Professor of Anthropology, Harvard University, Cambridge, Mass. (10). 1874. **F H**

Putnam, Helen Cordelia, M. D., LL. D., Rhode Island Ave., Providence, R. I. (60). **K**

Putnam, Henry St. Clair, E. E., 100 Broadway, New York, N. Y. (47). **DE**

Putnam, John Jacob, Ph. D., Head, Department of Bacteriology, University of Idaho, Moscow, Idaho. (66). **K**

*Putnam, Thomas Milton, University of California, Berkeley, Cal. (64). 1915. **A**

PUTNAM, WILLIAM LOWELL, 49 Beacon St., Boston, Mass. (60).

Putt, Earl Berger, Food Inspection Laboratory, U. S. Appraisers Stores, New York, N. Y. (63).

Pyatt, Charles W., 519 Flint St., Rochester, N. Y. (64). **I**

Pyle, William Henry, Ph. D., 138 Giles St., Ithaca, N. Y. (53). **I**

Quain, Eric P., M. D., Bismarck, N. D. (60). **K**

*Quaintance, Altus Lacy, U. S. Department of Agriculture, Washington, D. C. (51). 1903. **F**

*Quayle, Henry Josef, Professor of Entomology, Citrus Experiment Station, Riverside, Cal. (55). 1913. **F**

Quick, Miss Marsha A., East Setauket, L. I., N. Y. (64). **F**

Quillian, Marvin Clarke, Professor of Biology and Geology, Wesleyan College, Macon, Ga. (65). **E F G**

Quinan, Clarence, M. D., 391 Sutter St., San Francisco, Cal. (66). **K**

Quincy, Mary A., M. D., Ashland, Nebr. (60). **K**

*Quinn, John James, Ph. D., Pittsburgh College, Pittsburgh, Pa. (52). 1905. **A**

Radcliffe, George Corlett, M. D., Peninsula, Ohio. (60). **K**

Radcliffe, Lewis, U. S. Bureau of Fisheries, Washington, D. C. (65). **F**

Radosavljevich, Paul R., New York University, New York, N. Y. (65).

Rafferty, Rev. Patrick, S. J., Professor of Physics, Holy Cross College, Worcester, Mass. (66). **B**

*Rahn, Otto, Ph. D., Assistant Professor of Bacteriology, University of Illinois, Urbana, Ill. (62). 1913. **K**

RAHT, CHARLES, P. O. Box 828, New York, N. Y. (57).

*Raiford, Lemuel Charles, Kent Laboratory, University of Chicago, Chicago, Ill. (65). 1915. **C**

Railsback, John B., Forbing, La. (62). **C G**

Rainey, Frank Lewis, Professor of Biology, Central University, Danville, Ky. (58). **F K**

Rall, Edward Everett, Professor of Education, University of Tennessee, Knoxville, Tenn. (63). **H L**

*Ramaley, Francis, Ph. D., Professor of Biology, University of Colorado, Boulder, Colo. (45). 1899. **G**

Rambaud, George Gibier, M. D., New York Pasteur Institute, New York, N. Y. (58). **K**

*Ramsey, Rolla Roy, Ph. D., Associate Professor of Physics, Indiana University, Bloomington, Ind. (50). 1906. **B**

Ramsperger, Herman G., 370 Manhattan Ave., New York, N. Y. (64). **I**

Ranck, Samuel Haverstick, Librarian, Public Library, Grand Rapids, Mich. (54). **I**

Rand, Charles L., 618 Jefferson Ave., Brooklyn, N. Y. (58). **B C H**

*Rand, Herbert Wilbur, Ph. D., Assistant Professor of Zoology, Harvard University, Cambridge, Mass. (51). 1905. **F**

Randall, Burton Alexander, M. D., Ph. D., 1717 Locust St., Philadelphia, Pa. (51). **K**

Randall, Frank E., 444 Park Ave., New York, N. Y. (57).

*Randall, Harrison McAllister, Junior Professor of Physics, University of Michigan, Ann Arbor, Mich. (63). 1913. **B**

Randall, Jacob S., C. E., Dana, Ind. (63). **D**

Randall, Mrs. Jacob S., R. R., Chrisman, Ill. (63).

Randall, John L., U. S. Bureau of Education, Washington, D. C. (60). **F**

*Randall, Dr. Merle, 205 South 6th St., Poplar Bluff Mo. (60). 1914. **C**

Randall, Otis Everett, Ph. D., Professor of Mechanics and Mechanical Drawing, Brown University, Providence, R. I. (57). **A B D**

Randle, E. H., LL. D., Hernando, Miss. (64). **F**

Randolph, Beverley S., C. E., E. M., Berkeley Springs, W. Va. (50). **D E**

Randolph, E. F., Jr., M. E., 527 West 34th St., New York, N. Y. (65). **D**

Randolph, Eldred Oscar, Charleston College, Charleston, S. C. (66). **E F**

Randolph, Evan, Seminole and Chestnut Avenues, Chestnut Hill, Philadelphia, Pa. (65).

*Randolph, Harriet, Ph. D., The Gables, Ardmore, Pa. (58). 1913. **F**

Rands, Robert D., 421 Lorch St., Madison, Wis. (65). **G**

*Rane, Frank William, State Forester, 6 Beacon St., Boston, Mass. (42). 1900. **F G I L M**

Rankin, H. D., President, Rankin Chemical Reduction Co., 389 Ridge Ave., Crafton, Pa. (54). **B C**

Rankin, Herbert E., Cherry Hill, South Pearl St., Albany, N. Y. (61).

*Rankin, Walter Mead, Ph. D., Professor of Biology, Princeton University, Princeton, N. J. (51). 1905. **F G**

Ranly, John, M. D., 936 Clark St., Cincinnati, Ohio. (60). **K**

Ransohoff, Joseph, M. D., Cincinnati, Ohio. (51). **K**

*Ransom, Brayton Howard, Ph. D., Chief, Division of Zoology, Bureau of Animal Industry, U. S. Department of Agriculture, Washington, D. C. (57). 1911. **F**

*Ransom, James Harvey, Ph. D., Professor of General Chemistry, Purdue University, La Fayette, Ind. (54). 1909. **C D**

*Ransome, Frederick Leslie, Ph. D., U. S. Geological Survey, Washington, D. C. (52). 1903. **E**

*Ranum, Arthur, Ph. D., Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. (63). 1914. **A**

Rapp Isaiah March, Ursinus College, Collegeville, Pa. (65).

Rasely, Edwin R., M. D., Uniontown, Pa. (60). **K**

Rasor, S. E., Professor of Mathematics, Ohio State University, Columbus, Ohio. (66). **A**

Ratcliffe, J. J., M. D., Aitkin, Minn. (63). **K**

Rathborne, Richard Charles, C. E., 107 East 70th St., New York, N. Y. (57). **D**

*Rathbun, Miss Mary Jane, U. S. National Museum, Washington, D. C. (52). 1906. **F**

*Rathbun, Richard, Sc. D., Smithsonian Institution, Washington, D. C. (40). 1892. **F**

Ratliff, R. F., Central Normal College, Danville, Ind. (60). **A**

*Rattan, Volney, 1510 Euclid Ave., Berkeley, Cal. (65). 1915.

Rau, Albert George, Ph. D., Superintendent, Moravian Parochial School, Bethlehem, Pa. (50). **A B**

Rau, Philip, 4932 Botanical Ave., St. Louis, Mo. (62). **F**

Raubenheimer, Otto, 1341 Fulton St., Brooklyn, N. Y. (58). **B C G K**

Rauschenberg, Oscar Caldwell, E. E., Southern Bell Telephone and Telegraph Co., Albany, Ga. (60). **D**

Rawl, Bernard Hazelius, Chief, Dairy Division, U. S. Department of Agriculture, Washington, D. C. (66). **F M**

RAY, BENJAMIN H., 2006 Girard Ave., Philadelphia, Pa. (63).

Raycroft, Joseph Edward, M. D., Professor of Hygiene, Princeton University, Princeton, N. J. (58). **K**

Rayevsky, Charles, M. D., Liberty, N. Y. (60). **K**

Raymer, George Sharp, 51 Brattle St., Cambridge, Mass. (50). **D E**

Raymond, Daniel V., 325 Fairmont Ave., Tompkinsville, N. Y. (57).

Raymond, Prof. George Lansing, 24 St. James Park, Los Angeles, Cal. (58). **L**

*Raymond, Howard Monroe, E. E., Dean, Armour Institute of Technology, Chicago, Ill. (58). 1915. **D**

*Raymond, Percy Edward, Ph. D., Assistant Professor of Paleontology, Museum of Comparative Zoology, Cambridge, Mass. (57). 1911. **E F**

Raymond, Reginald Irving, University of the South, Sewanee, Tenn. (64). **F**

*Raymond, Rossiter Worthington, Ph. D., LL. D., 29 West 39th St., New York, N. Y. (15). 1875. **B C D E I K**

*Rea, Paul Marshall, Director, The Charleston Museum, Charleston, S. C. (53). 1915. **F**

*Read, Edmund E., Jr., 604 Cooper St., Camden, N. J. (54). 1906. **A**

Read, Effie Alberta, Ph. D., Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (60). **C F**

Read, Melbourne Stuart, Ph. D., Vice-President and Professor of Psychology, Colgate University, Hamilton, N. Y. (66). **H L**

Read, Mrs. Robert M., 4 Ashland St., Medford, Mass. (57). **F G**

*Reade, John Moore, Ph. D., Professor of Botany, University of Georgia, Athens, Ga. (56). 1911. **G**

*Reagan, Prof. Albert B., U. S. Indian School, Ibapah, Utah. (53). 1911. **E H**

Reames, Eleanor Elmire, Ph. D., Newcomb Memorial College, Tulane University, New Orleans, La. (64). **B**

Reber, Wendell, M. D., 1212 Spruce St., Philadelphia, Pa. (60). **K**

Réche, Miss Eugénie M., 31 Howell St., Rochester, N. Y. (41). **E H**

Reckefus, Charles H., Jr., M. D., 506 North 6th St., Philadelphia, Pa. (51). **F K**

*Record, Samuel J., Assistant Professor of Forest Products, Yale University Forest School, New Haven, Conn. (62). 1915. **G M**

Records, Ralph L., Professor of Chemistry and Physics, Transylvania University, Lexington, Ky. (66). **C**

Rector, Frank Leslie, M. D., 36 41st St., Brooklyn, N. Y. (60). **C K**

*Reddick, Donald, Ph. D., Professor of Plant Pathology, Cornell University, Ithaca, N. Y. (56). 1911. **G**

Redfield, Alfred C., Concord, Mass. (65). **F**

Redgrave, Commander D. Clinton, U. S. N., 1505 Bolton St., Baltimore, Md. (60). **A D**

Reed, Carlos S., Direcion General de Industrias, Mendoza, Argentina, S. A. (61). **F**

Reed, Charles Bert, M. D., 3748 Sheffield Ave., Chicago, Ill. (65). **K**

*Reed, Charles John, 520 Head Building, San Francisco, Cal. (34). 1904. **B C**

*Reed, Frank Walker, Ph. D., Department of Astronomy, University of Illinois, Urbana, Ill. (58). 1910. **A**

*Reed, George Matthew, Ph. D., Professor of Botany, University of Missouri, Columbia, Mo. (60). 1911. **G**

Reed, Guilford B., 16 Conant Hall, Cambridge, Mass. (66). **G**

*Reed, Howard Sprague, Ph. D., Professor of Plant Physiology, Citrus Experiment Station, Riverside, Cal. (53). 1909. **C G**

*Reed, Hugh Daniel, Ph. D., Assistant Professor of Vertebrate Zoology, Cornell University, Ithaca, N. Y. (49). 1906. **F L**

Reed, John B., 3759 McKinley St., Chevy Chase, D. C. (60). **C**

*Reed, John Oren, Ph. D., Dean, Department of Literature, Science and Arts, University of Michigan, Ann Arbor, Mich. (44). 1898. **B**

Reed, John T., E. M., Lovelocks, Nevada. (60). **D**

Reed, Leander Nelson, E. E., 9 Van Guilder Terrace, New Rochelle, N. Y. (60). **D**

*Reed, Raymond Clinton, Professor of Bacteriology, Delaware College, Newark, Del. (60). 1911. **K**

*Reed, William Gardner, Department of Geography, University of California, Berkeley, Cal. (60). 1915. **E**

Reeder, J. Dawson, M. D., 639 North Fulton Ave., Baltimore, Md. (60). **K**

Reeder, John T., 318 College Ave., Houghton, Mich. (63).

*Reeds, Chester Albert, Ph. D., Assistant Curator of Geology and Invertebrate Paleontology, American Museum of Natural History, New York, N. Y. (60). 1911. **E**

Reemelin, Edward B., M. D., 3471 Cheviot Ave., Station L, Cincinnati, Ohio. (60). **K**

Rees, Harry L., Plant Pathologist, Western Washington Experiment Station, Puyallup, Washington. (62). **G**

*Reese, Albert Moore, Ph. D., Professor of Zoology, West Virginia University, Morgantown, W. Va. (52). 1906. **F**

Reese, Arnold K., E. M., The Red House, Victoria Road, Penarth, Wales. (60). **D**

*Reese, Herbert M., Ph. D., 911 Lowry St., Columbia, Mo. (49). 1906. **B**

*Reese, Stanley Chester, Ph. D., 628 College Ave., East Liberty Station, Pittsburgh, Pa. (58). 1909. **A D**

*Reeves, George I., 322 H St., Salt Lake City, Utah. (57). 1913. **F**

Regan, John Ward, 51 Waltham St., Lexington, Mass. (58). **A B D L**

*Rehder, Alfred, 62 Orchard St., Jamaica Plain, Mass. (60). 1911. **G**

*Reichert, Edward Tyson, M. D., Sc. D., Professor of Physiology, University of Pennsylvania, Philadelphia, Pa. (58). 1910. **F H K**

*Reichmann, Fritz, Ph. D., 56 Pine St., New York, N. Y. (54). 1906. **B**

*Reid, Harry Fielding, Ph. D., Professor of Dynamic Geology and Geography, Johns Hopkins University, Baltimore, Md. (36). 1893. **E**

Reifsnyder, Samuel K., 703 First Ave., Asbury Park, N. J. (50). **B C L**

Reigart, John Franklin, 31 Euclid Ave., Yonkers, N. Y. (53). **L**

*Reighard, Jacob, Professor of Zoology, University of Michigan, Ann Arbor, Mich. (51). 1904. **F**

Reimer, Arthur Adams, C. E., 45 South Maple Ave., East Orange, N. J. (60). **D**

Reinoso, Ezequiel A., Apartado 1108, Lima, Peru, S. A. (60). **C**

Reist, Henry Gerber, M. E., 110 Avon Road, Schenectady, N. Y. (50). **D G**

Reiter, Frank Horace, Department of Psychology, University of Pennsylvania, Philadelphia, Pa. (66). **H**

Rejall, Prof. Alfred E., 54 Tompkins Place, Brooklyn, N. Y. (63). **H**

*Remington, Joseph Price, Ph. D., Director Philadelphia College of Pharmacy, Philadelphia, Pa. (54). 1906. **K**

Remington, Roe Eugene, Professor of Chemistry, N. D. Agricultural College, Agricultural College, N. D. (60). **C**

*Remsen, Ira, M. D., Ph. D., LL. D., Johns Hopkins University, Baltimore, Md. (22). 1875. **C**

Renick, Frank H., 1424 Belmont Avenue, Seattle, Wash. (65).

Rettger, Ernest William, Ph. D., Assistant Professor of Applied Mechanics, Cornell University, Ithaca, N. Y. (61). **B D**

*Rettger, Leo Frederick, Ph. D., Professor of Bacteriology, Connecticut Agricultural Experiment Station, New Haven, Conn. (60). 1911. **K**

*Retzer, Robert, M. D., Assistant Professor of Anatomy, University of Chicago, Chicago, Ill. (60). 1911. **K**

*Revell, Dr. Daniel Graisberry, Provincial Bacteriologist, P. O. Drawer 5211, Strathcona, Alberta, Canada. (58). 1911. **K**

Rew, Irwin, 1128 Ridge Ave., Evanston, Ill. (58).

Reyling, Frederic F., M. D., 1004 Oak St., Kansas City, Mo. (58). **K**

Reynolds, Edward, M. D., Readville, Mass. (60). **K**

*Reynolds, Frederick Gregory, Assistant Professor of Mathematics, College of the City of New York, New York, N. Y. (58). 1910. **A**

Reynolds, R. V., Alabama Marble Co., Gantts Quarry, Ala. (65).

Rhamy, Bonnelle W., M. D., Fort Wayne, Ind. (60). **K**

Rhodes, Frederick A., M. D., 632 Herron Ave., Pittsburgh, Pa. (60). **K**

*RHODES, JAMES FORD, LL. D., 392 Beacon St., Boston, Mass. (50). 1904. **I**

Ricard, Jerome Sixtus, Ph. D., Observatory, University of Santa Clara, Santa Clara, Cal. (65). **A**

*Rice, Edward Loranus, Ph. D., Professor of Zoology, Ohio Wesleyan University, Delaware, Ohio. (43). 1905. **F**

Rice, Edwin Wilbur, Jr., E. E., Sc. D., President, General Electric Co., Schenectady, N. Y. (50). **D**

Rice, Emily J., School of Education, University of Chicago, Chicago, Ill. (61). **L**

Rice, George Samuel, Chief Mining Engineer, U. S. Bureau of Mines, Pittsburgh, Pa. (62). **D**

Rice, Lepine Hall, 113 Concord Place, Syracuse, N. Y. (58). **A**

*Rice, Martin Everett, Associate Professor of Physics and Electrical Engineering, University of Kansas, Lawrence, Kans. (50). 1906. **B D**

*Rice, William North, Ph. D., LL. D., Professor of Geology, Wesleyan University, Middletown, Conn. (18). 1874. **E F L**

*Rich, John Lyon, Ph. D., Department of Geology, University of Illinois, Urbana, Ill. (60). 1914. **E**

Rich, Michael P., M. D., 32 West 88th St., New York, N. Y. (40). **K**

Rich, Mrs. T. Hudson, 1820 Delancey Place, Philadelphia, Pa. (65).

*Richards, Aute, Department of Zoology, University of Texas, Austin, Texas. (62). 1915. **F**

*RICHARDS, EDGAR, 60 Ayrault St., Newport, R. I. (31). 1886. **C**

*Richards, Herbert Maule, Sc. D., Ph. D., Professor of Botany, Barnard College, Columbia University, New York, N. Y. (51). 1902. **G**

*Richards, Horace Clark, Ph. D., Professor of Mathematical Physics, University of Pennsylvania, Philadelphia, Pa. (58). 1910. **A B**

*Richards, Robert Hallowell, LL. D., Emeritus Professor of Mining Engineering and Metallurgy, Massachusetts Institute of Technology, Boston, Mass. (22). 1875. **D**

*Richards, Theodore William, Sc. D., Ph. D., LL. D., Professor of Chemistry, Harvard University, Cambridge, Mass. (47). 1899. **B C**

Richards, Theodore Wright, Surgeon, U. S. Navy, Bureau of Medicine and Surgery, Navy Department, Washington, D. C. (63). **K**

Richardson, Major Charles A., Canandaigua, N. Y. (50). **I**

*Richardson, Charles Henry, Ph. D., Professor of Geology and Mineralogy Syracuse University, Syracuse, N. Y. (47). 1906. **E**

Richardson, Charles Williamson, M. D., 1317 Connecticut Ave. N. W., Washington, D. C. (49). **K**

*Richardson, Clifford, Consulting Engineer, Woolworth Building, New York, N. Y. (30). 1884. **C D**

Richardson, David Porter, M. D., Henderson, Texas. (60). **K**

*Richardson, George Burr, Ph. D., U. S. Geological Survey, Washington, D. C. (55). 1907. **E**

*Richardson, Mark Wyman, M. D., Secretary, State Board of Health, State House, Boston, Mass. (51). 1903. **K**

Richardson, Roy S., 387*a* McDonough St., Brooklyn, N. Y. (58).

Richardson, Russell, M. D., Newtown, Pa. (58). **K**

*Richardson, William D., Chief Chemist, Swift & Co., Chicago, Ill. (56). 1908. **C**

Richardson, William D., P. O. Box 185, Fredericksburg, Va. (52). **C F**

Richey, Stephen O., Ph. D., 732 17th St. N. W., Washington, D. C. (54).

Richmond, William Henry, E. M., Richmond Hill, Scranton, Pa. (50). **D E**

Richter, Clemens M., M. D., 209 Post St., S. W., San Francisco, Cal. (60). **K**

Richtmann, William Oscar, Satsuma Heights, Fla. (58). **C G**

Ricker, Maurice, 1039 19th St., Des Moines, Iowa. (50). **F**

*Ricker, Nathan Clifford, D. Arch., Professor of Architecture, University of Illinois, Urbana, Ill. (50). 1906. **D**

*Ricker, Percy Leroy, U. S. Department of Agriculture, Washington, D. C. (52). 1906. **G**

Ricketts, Louis Davidson, E. M., 42 Broadway, New York, N. Y. (50). **D E**

*Ricketts, Palmer Chamberlaine, C. E., LL. D., President, Rensselaer Polytechnic Institute, Troy, N. Y. (33). 1887. **A D**

*Ricketts, Pierre de Peyster, Ph. D., 80 Maiden Lane, New York, N. Y. (26). 1880. **C D E**

Ricketts, Col. R. Bruce, Wilkes-Barre, Pa. (33). **E**

Ridder, Herman, *New York Staats Zeitung*, 182 William St., New York, N. Y. (57). **I L**

*Riddle, Lincoln Ware, Ph. D., Associate Professor of Botany, Wellesley College, Wellesley, Mass. (52). 1910. **G**

*Riddle, Oscar, Ph. D., Carnegie Laboratory, Cold Spring Harbor, N. Y. (58). 1910. **F**

Ridgway, Charles Sylvester, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (62). **G**

Riedel, J. Charles, C. E., 505 Macon St., Brooklyn, N. Y. (60). **D**

Rieger, Joseph, M. D., 509 Central Ave., Dunkirk, N. Y. (60). **K**

Ries, Elias Elkan, E. E., 116 Nassau St., New York, N. Y. (33). **B D H I K**

*Ries, Heinrich, Ph. D., Head, Department of Geology, Cornell University, Ithaca, N. Y. (41). 1898. **E**

Riesman, David, M. D., Professor of Clinical Medicine, University of Pennsylvania, Philadelphia, Pa. (51). **K**

*Rietz, Henry Lewis, Ph. D., Professor of Mathematics, University of Illinois, Urbana, Ill. (51). 1906. **A**

*Riffle, Franklin, care Dunham, Carrigan and Hayden Co., San Francisco, Cal. (65). 1915.

Rigby, William C., 902 Chamber of Commerce Building, Chicago, Ill. (58).

Rigdon, Rufus L., M. D., 621 Chronicle Building, San Francisco, Cal. (60). **K**

*Rigg, George Burton, University of Washington, Seattle, Wash. (63). 1915. **G**

Rigg, Gilbert, Palmerton, Pa. (64). **C**

*Rigge, Rev. William Francis, S. J., Professor of Astronomy and Physics, Creighton University, Omaha, Neb. (62). 1913. **A B**

Riggs, Elmer S., Field Museum of Natural History, Chicago, Ill. (64).

Riggs, John D., M. E., 707 Court St., Kankakee, Ill. (60). **D**

Riggs, Morris John, C. E., Manager, Toledo Plant, American Bridge Co., 3136 Collingwood Ave., Toledo, Ohio. (60). **D**

*Riggs, Norman Colman, Associate Professor of Applied Mechanics, Carnegie Institute of Technology, Pittsburgh, Pa. (54). 1907. **A D**

*Riggs, Robert Baird, Ph. D., Professor of Chemistry, Trinity College, Hartford, Conn. (50). 1901. **C**

Riggs, Theodore F., M. D., Pierre, S. D. (60). **K**

Rightor, Fred Elmer, Texas Bitulithic Co., Austin, Tex. (60). **D**

Rigling, Alfred, Librarian, Franklin Institute, Philadelphia, Pa. (63).

Riker, Clarence B., South Orange, N. J. (52). **F**

Riley, Charles Frederick Curtis, Professor of Biology, State Normal School, Milwaukee, Wis. (57). **C F G**

*Riley, Isaac Woodbridge, Ph. D., Professor of Philosophy, Vassar College, Poughkeepsie, N. Y. (52). 1904. **H I**

Riley, Morgan T., 628 West 114th St., New York, N. Y. (64).

*Riley, William Albert, Ph. D., Professor of Entomology, Cornell University, Ithaca, N. Y. (54). 1908. **F**

*Rines, David, U. S. Patent Office, Washington, D. C. (63). 1913. **A**

Ringer, Adolphus Irving, Ph. D., Assistant Professor of Physiological Chemistry, University of Pennsylvania School of Medicine, Philadelphia, Pa. (63). **K**

Ripley, G. E., University of Arkansas, Fayetteville, Ark. (61). **G**

Ripley, Joseph, C. E., M. E., 350 Western Ave., Albany, N. Y. (66). **D**

*Risley, Walter John, Professor of Mathematics, James Millikin University, Decatur, Ill. (62). 1914. **A**

Risser, Jonathan, Professor of Zoology, Washburn College, Topeka, Kans. (62). **F**

Ritchey, James Warren, Hughes High School, Cincinnati, Ohio. (64). **B**

Ritchey, Joseph C., American Steel and Wire Co., Cleveland, Ohio. (63).

Ritchie, Mrs. Charlotte W., Philadelphia College of Pharmacy, Philadelphia, Pa. (63). **C I L**

*Rittenhouse, Elmer Ellsworth, 25 West 45th St., New York, N. Y. (64). 1915. **I**

Rittenhouse, Samuel, Ph. D., Associate Professor of Zoology, University of Southern California, Los Angeles, Cal. (62). **F**

*Ritter, William Emerson, Ph. D., Director, Scripps Institute for Biological Research, LaJolla, Cal. (50). 1901. **F H**

Rives, George Lockhart, LL. D., 69 East 79th St., New York, N. Y. (58). **I**

*Rixford, Emmet, M. D., 1795 California St., San Francisco, Cal. (60). 1911. **K**

Rixford, Gulian P., C. E., 1813 Pierce St., San Francisco, Cal. (63). **D G**

*Robb, William Lispenard, Ph. D., LL. D., P. O. Box 592, Troy, N. Y. (58). 1910. **B D**

Robbins, Gilbert E., M. D., Chillicothe, Ohio. (60). **K**

Robbins, Mrs. Lulu W., 4204 Terrace St., Oakland, Cal. (65).

*Robbins, Wilfred W., Department of Botany and Forestry, State Agricultural College, Fort Collins, Colo. (63). 1915. **G M**

Robbins, William Bradford, M. D., 384 Commonwealth Ave., Boston, Mass. (60). **K**

Robbins, William Jacob, Department of Botany, N. Y. State College of Agriculture, Syracuse, N. Y. (65). **G**

Robert, Daniel R., M. D., 184 Joralemon St., Brooklyn, N. Y. (66). **K**

Robert, Henry Martyn, Brigadier General, U. S. A., Retired, Owego, N. Y. (54). **A E I L**

Robert, Joseph C., M. D., Director, School of Agriculture, Agricultural College, Miss. (66). **K M**

ROBERT, SAMUEL, 906 Park Ave., New York, N. Y. (57).

*Roberts, Charlotte Fitch, Ph. D., Professor of Chemistry, Wellesley College, Wellesley, Mass. (60). 1911. **C**

Roberts, Christopher H., 10 Washington Place, New York, N. Y. (57). **F**

Roberts, Elmer, College of Agriculture, Urbana, Ill. (65). **G**

*Roberts, Hon. George Evan, Treasury Department, Washington, D. C. (58). 1915. **I**

Roberts, H. L., Professor of Agriculture, State Normal School, Cape Girardeau, Mo. (52). **E F G**

Roberts, Herbert Fuller, Professor of Botany, Kansas State Agricultural College, Manhattan, Kans. (63). **G**

*Roberts, John Bingham, M. D., 313 South 17th St., Philadelphia, Pa. (55). 1911. **K**

Roberts, John M., Secretary, Central Scientific Co., 345-349 West Michigan St., Chicago, Ill. (58).

*Roberts, John William, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (60). 1915. **G**

Roberts, P. R., Washington Boro, Pa. (58). **B C D F H I L**

Roberts, Thomas Paschall, C. E., 361 North Craig St., Pittsburgh, Pa. (51). **D**

*Roberts, Thomas Sadler, M. D., 1603 4th Ave., South, Minneapolis, Minn. (61). 1911. **K**

*Robertson, Alice, Ph. D., Associate Professor of Zoology, Wellesley College, Wellesley, Mass. (54). 1909. **F K**

*Robertson, Charles, 305 Orient St., Carlinville, Ill. (53). 1906. **F**

Robertson, Charles Barr, Professor of Secondary Education, University of Pittsburgh, Pittsburgh, Pa. (63). **L**

Robertson, Prof. George, 152 The Terrace, Redlands, Cal. (66).

Robertson, James, U. S. Naval Observatory, Washington D. C. (63). **A**

Robertson, James Wilson, LL.D., Chairman, Royal Commission on Industrial Training and Technical Education, Ottawa, Canada. (66). **D L M**

Robertson, John McB., care Jorgenson Contract, Waipahu, Oahu, Hawaii. (65).

Robertson, W. Rees B., 1420 Ohio St., Lawrence, Kansas. (61). **F**

Robertson, William M., M. D., Warren, Pa. (60). **K**

Rovinovitch, Louise G., M. D., P. O. Box 1023, New York, N. Y. (57). **K**

*Robinson, Benjamin Lincoln, Ph. D., Curator, Gray Herbarium, Cambridge, Mass. (41). 1893. **G**

*Robinson, Mrs. Daisy M. Orleman, M. D., 159 West 49th St., New York, N. Y. (40). 1897. **K**

Robinson, Emma C., 56 Crary Ave., Mt. Vernon, N. Y. (60). **L**

*Robinson, G. Canby, M. D., Washington University Medical School, St. Louis, Mo. (62). 1914. **K**

Robinson, John Knowlton, E. E., 104 Pearl St., New York, N. Y. (60). **D**

Robinson, Lewis Archibald, Ph. D., Bay Ridge High School, Brooklyn, N. Y. (64). **H L**

ROBINSON, REV. LUCIEN MOORE, D.D., Philadelphia Divinity School, 5000 Woodlawn Ave., Philadelphia, Pa. (66).

*Robinson, Philip Ely, Ph. D., 2401 Willard St., Wilmington, Del. (58). 1910. **A B C D**

Robinson, Sanford, C. E., E. M., Room 1400, Union Trust Building, Los Angeles, Cal. (50). **D**

*Robinson, William Orrin, U. S. Department of Agriculture, Washington, D. C. (58). 1911. **C**

*Robinson, Winifred Josephine, Ph. D., Dean, Women's Affiliated Colleges of Delaware, Newark Del. (55). 1911. **G**

Robison, Clarence H., State Normal School, Montclair, N. J. (60). **F G L**

Rochester, DeLancey, M. D., 469 Franklin St., Buffalo, N. Y. (35). **F K**

Rockey, Alpha E., M. D., Electric Building, Portland, Ore. (51). **K**

*Rockwood, Elbert William, M. D., Ph. D., Professor of Chemistry and Toxicology, State University of Iowa, Iowa City, Iowa. (50). 1906. **C K**

Rockwood, Lawrence Peck, 416 Vermont Building, Salt Lake City, Utah. (65). **M**

Roddy, Harry Justin, Ph. D., Professor of Geology and Geography, State Normal School, Millersville, Pa. (57). **B E**

Rodgers, George Branner, E. E., 1724 Magnolia Ave., Knoxville, Tenn. (58). **D**

Rodgers, T. G., East Las Vegas, New Mexico. (62). **A**

*Roe, Edward Drake, Jr., Ph. D., Professor of Mathematics, Syracuse University, Syracuse, N. Y. (50). 1906. **A**

Roehr, Charles G., M. D., P. O. Box 327, Fort Pierce, Fla. (58). **K**
Roesler, Max, 137 West 85th St., New York, N. Y. (62). **D**
Roessler, Franz, 89 High St., Perth Amboy, N. J. (39). **C**
*Roever, William Henry, Ph. D., Washington University, St. Louis, Mo. (53). 1906. **A**
*Rogers, Arthur Curtis, M. D., LL. D., Faribault, Minn. (60). 1911. **K**
*Rogers, Austin Flint, Associate Professor of Mineralogy and Petrography, Leland Stanford Junior University, Stanford University, Cal. (65). 1915. **E**
Rogers, Burton Ray, Kansas State Agricultural College, Manhattan, Kans. (62). **F K**
*Rogers, Charles Gardner, Ph. D., Associate Professor of Physiology, Syracuse University, Syracuse, N. Y. (57). 1909. **F K**
*Rogers, Fred. A., E. E., Professor of Electrical Engineering and Physics, Lewis Institute, Chicago, Ill. (60). 1915. **D**
*Rogers, Frederick John, Stanford University, Cal. (65). 1915. **B**
Rogers, Frederick Terry, 5604 Maryland Ave., Chicago, Ill. (64).
Rogers, John, M. D., 102 East 30th St., New York, N. Y. (64). **K**
Rohn, Minna Mary, Ph. D., 3803 Clinton Ave., Cleveland, Ohio. (63). **F**
Rohrer, Caleb W. G., M. D., Associate Professor of Pathology, College of Physicians and Surgeons, Baltimore, Md. (58). **F K**
Rolfe, Frank, 1631 Council St., Los Angeles, Cal. (65).
*Rolfs, Fred M., Clemson College, S. C. (65). 1915. **G**
*Rolfs, Peter Henry, Director, Florida Agricultural Experiment Station, Gainesville, Fla. (41). 1899. **G**
Roller, G. H., 221 East Michigan St., Marquette, Mich. (64).
Romer, Miss Caroline S., 154 2d Ave., Newark, N. J. (62). **A**
Rominger, Louis, M. D., 1414 Highland Ave., Louisville, Ky. (60). **K**
Rommel, George McCullough, Chief, Animal Husbandry Division, U. S. Department of Agriculture, Washington, D. C. (66). **M**
*Rood, James Theron, Ph. D., Professor of Electrical Engineering, Lafayette College, Easton, Pa. (58). 1915. **A B D**
Roop, Hervin Ulysses, Ph. D., President, Eastern College, Manassas, Va. (58). **H I K**
Roop, Wendell Prescott, University of California, Berkeley, Cal. (63). **B**
Roosevelt, W. E., P. O. Box 1222, New York, N. Y. (57).
*Root, Hon. Elihu, The Connecticut, Washington, D. C. (50). 1901. **I**
Roper, Gertrude L., 404 Hubbard Ave., Detroit, Mich. (60). **A B**
*Rorer, James Birch, Board of Agriculture, Trinidad, B. W. I. (51). 1911. **G**
*Rorer, Jonathan Taylor, Ph. D., Head, Department of Mathematics, Wm. Penn High School for Girls, Philadelphia, Pa. (47). 1906. **A D L**
*Rosa, Edward Bennett, Ph. D., Chief Physicist, Bureau of Standards, Washington, D. C. (39). 1892. **B I**
Rosanoff, A. J., Kings Park, N. Y. (64).
*Rosanoff, Martin André, Sc. D., Professor of Research Chemistry, Mellon Institute of Industrial Research, Pittsburgh, Pa. (60). 1910. **C**
Rose, Dean Humboldt, Mountain Grove, Mo. (65). **G**

*Rose, Joseph Nelson, Ph. D., Smithsonian Institution, Washington, D. C. (52). 1905. **G**

Rose, Mary D. Swartz, Ph. D., Assistant Professor, Department of Nutrition, Teachers College, Columbia University, New York, N. Y. (60). **C**

*Rosenau, Milton Joseph, M. D., Professor of Hygiene and Preventive Medicine, Harvard University, Cambridge, Mass. (51). 1906. **K**

*Rosenbloom, Jacob, M. D., Ph. D., School of Medicine, University of Pittsburgh, Pittsburgh, Pa. (57). 1911. **C K**

*Rosendahl, Carl Otto, Ph. D., Professor of Botany, University of Minnesota, Minneapolis, Minn. (58). 1909. **G**

*Rosenfeld, Arthur H., Estacion Experimental Agricola, Tucuman, Argentina, S. A. (57). 1914. **F**

*Rosengarten, George D., Ph. D., P. O. Box 1625, Philadelphia, Pa. (58). 1911. **C**

Rosengarten, Joseph George, LL. D., 1704 Walnut St., Philadelphia, Pa. (65).

Rosenkrans, Duane B., South Carolina Agricultural Experiment Station, Clemson College, S. C. (63). **G**

Rosenow, Edward Carl, M. D., 5804 Washington Ave., Hyde Park, Chicago, Ill. (62). **K**

*Ross, Bennett Battle, Professor of Chemistry, Alabama Polytechnic Institute, Auburn, Ala. (45). 1906. **C**

*Ross, Denman Waldo, Ph. D., 24 Craigie St., Cambridge, Mass. (29). 1906.

Ross, Prof. Hannaniah H., Point Loma, Cal. (58). **C**

*Ross, Luther Sherman, Professor of Zoology and Bacteriology, Drake University, Des Moines, Iowa. (61). 1915. **F**

Ross, Perley Ason, Department of Physics, Leland Stanford Junior University, Stanford University, Cal. (62). **B**

Ross, William Horace, Bureau of Soils, U. S. Department of Agriculture, Washington, D. C. (65). **G**

Ross, William J., M. D., 13 John St., Clayton, N. Y. (60). **K**

*Rothermel, John Goodhart, Director, Wagner Free Institute of Science, Philadelphia, Pa. (53). 1915. **E F**

Rothermel, John Jacob, Department of Physics, Eastern High School, Washington, D. C. (51). **B D L**

*Rothrock, David Andrew, Ph. D., Professor of Mathematics, Indiana University, Bloomington, Ind. (58). 1908. **A D L**

Rothwell, William P., M. D., 26 High St., Pawtucket, R. I. (60). **K**

*Rouiller, Charles August, Ph. D., Johns Hopkins University, Baltimore, Md. (58). 1911. **C**

Round, Lester Angell, Ph. D., Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (66). **K**

Roush, G. A., 925 University Ave., Madison, Wis. (60). **C**

*Rowe, Jesse Perry, Ph. D., Professor of Physics and Geology, University of Montana, Missoula, Mont. (52). 1911. **B E**

Rowlands, Charles, 45 Metcalfe St., Montreal, Can. (58). **C**

*Rowlee, Willard Winfield, Sc. D., Professor of Botany, Cornell University, Ithaca, N. Y. (41). 1894. **G**

Rowley, Prof. Robert R., 1115 N. C. St., Louisiana, Mo. (62). **F**

*Roy, Arthur J., C. E., Dudley Observatory, Albany, N. Y. (50). 1908. **A**

*Royce, Josiah, Sc. D., Ph. D., LL. D., Professor of History of Philosophy, Harvard University, Cambridge, Mass. (57). 1909. **H**

*Ruckmich, Christian Alban, Ph. D., University of Illinois, Urbana, Ill. (63). 1914. **H**

Ruddle, John, C. E., P. O. Box 331, Mauch Chunk, Pa. (60). **D**

Rudisch, Julius, M. D., 39 East 63d St., New York, N. Y. (57). **K**

*Rudnick, Paul, 10640 South Seeley Ave., Chicago, Ill. (60). 1915. **C**

Rudolph, Cuno H., President, Second National Bank, Washington, D. C. (62).

*Ruedemann, Rudolf, Ph. D., Assistant State Paleontologist, Education Building, Albany, N. Y. (52). 1906. **E**

Ruediger, Gustav Ferdinand, M. D., Ph. D., La Salle, Ill. (58). **K**

*Ruediger, William Carl, Ph. D., Professor of Educational Psychology, George Washington University, Washington, D. C. (58). 1910. **H L**

*Ruehle, Godfrey L. A., New York Agricultural Experiment Station, Geneva, N. Y. (65). 1915. **G**

*Ruger, Henry Alford, Ph. D., 854 West 181st St., New York, N. Y. (54). 1911. **H L**

*Ruggles, Arthur Gordon, Assistant Professor of Entomology, Agricultural Experiment Station, University Farm, St. Paul, Minn. (58). 1913. **F**

Ruhl, Louis, E. M., 100 William St., New York, N. Y. (58). **C D**

Ruiz, Manuel Felix, 253 West 109th St., New York, N. Y. (62).

*Rumbold, Miss Caroline, Department of Botany, University of Pennsylvania, Philadelphia, Pa. (53). 1913. **G**

Rumsey, William Earle, Professor of Entomology, West Virginia Agricultural Experiment Station, Morgantown, W. Va. (58). **F**

Rundlett, David L., M. D., P. O. Box 148, Sioux Falls, S. D. (60). **K**

*Runkle, Erwin William, Ph. D., Professor of Psychology and Ethics, Pennsylvania State College, State College, Pa. (58). 1911. **H L**

Runner, George A., 1644 West Grace St., Richmond, Va. (58). **F**

*Running, Theodore Rudolph, Ph. D., Assistant Professor of Mathematics, University of Michigan, Ann Arbor, Mich. (50). 1906. **A**

*Runyan, Elmer Gardner, Hutchins Building, 10th and D Sts., N. W., Washington, D. C. (58). 1911. **C D E**

Rupf, Ernest L., M. E., 181 New York Ave., West New Brighton, N. Y. (60). **D**

Rupp, August, Associate Professor of Latin, College of the City of New York, New York, N. Y. (35). **E L**

Rush, Raymond C., M. D., P. O. Box 225, Hudson, Ohio. (64). **F K**

*Rusk, Glanville Yeisley, M. D., University of California, Berkeley, Cal. (54). 1915. **K**

*Russell, Col. A. H., U. S. A., War Department, Washington, D. C. (38). 1906. **D**

Russell, Bert, Capitol View, Md. (58). **C F G K**

Russell, Charles, R. F. D. 1, Bartow, Fla. (65). **C**

Russell, H. M., Compton, Cal. (58). **F**

*Russell, Harry Luman, M. D., Ph. D., Dean, College of Agriculture, University of Wisconsin, Madison, Wis. (41). 1894. **K**

*Russell, Henry Norris, Ph. D., Professor of Astronomy, Princeton University, Princeton, N. J. (54). 1906. **A**

*Russell, James Earl, Ph. D., LL. D., Dean, Teachers College, Columbia University, New York, N. Y. (50). 1901. **H L**

Russell, Miss Ruth C., Lovington, Ill. (65).

Russell, Thomas Hubbard, M. D., 137 Elm St., New Haven, Conn. (54). **K**

Russell, William Polk, Assistant Professor of Mathematics, Pomona College, Claremont, Cal. (60). **A**

Ruth, Warren Albert, 901 West Illinois St., Urbana, Ill. (63). **C**

Rutherford, W. J., Ph. D., Dean, College of Agriculture, University of Saskatchewan, Saskatoon, Canada. (66). **M**

*Ruthven, Alexander Grant, Ph. D., Assistant Professor of Zoology, University of Michigan, Ann Arbor, Mich. (54). 1913. **F**

Rutkauskas, Anthony Kazis, M. D., 2302 Leavitt St., Chicago, Ill. (58). **K**

Ruttan, Robert Fulford, M. D., Professor of Organic and Biological Chemistry, McGill University, Montreal, Canada. (63). **C**

Ruzicka, D. J., M. D., 334 East 72d St., New York, N. Y. (60). **K**

Ryan, Andrew Howard, M. D., University of Alabama School of Medicine, Mobile, Ala. (63). **K**

*Ryan, Harris Joseph, E. E., Professor of Electrical Engineering, Leland Stanford Junior University, Stanford University, Cal. (38). 1890. **B D**

*Rydberg, Per Axel, Ph. D., Curator, New York Botanic Garden, Bronx Park, New York, N. Y. (49). 1901. **G**

RYERSON, MARTIN ANTOINE, Corn Exchange Bank Building, 134 South La Salle St., Chicago, Ill. (58).

Ryfkogel, Henry A. L., M. D., 162 Post St., San Francisco, Cal. (60). **K**

Sabichi, George Carlos, M. D., 1620 17th St., Bakersfield, Cal. (60). **K**

*Sabin, Alvah Horton, M. E., 432 Sanford Ave., Flushing, L. I., N. Y. (60). 1911. **C**

*Sabin, Florence Rena, M. D., Associate Professor of Anatomy, Johns Hopkins University, Baltimore, Md. (57). 1910. **K**

*Sabine, Wallace Clement, Sc. D., Hollis Professor of Mathematics and Natural Philosophy, Harvard University, Cambridge, Mass. (47). 1900. **B**

Sachs, Adolph, M. D., 604 City National Bank, Omaha, Nebr. (64). **K**

Sackett, C. Harold, Park Hotel, St. Louis, Mo. (63). **G**

Sackett, Leroy W., Ph. D., Department of Education, University of Texas, Austin, Texas. (66). **L**

*Sackett, Robert Lemuel, C. E., Dean, Engineering School, Pennsylvania State College, State College, Pa. (50). 1915. **D**

*Sackett, Walter George, Bacteriologist, Agricultural Experiment Station, Fort Collins, Colo. (32). 1911. **G K**

Sadler, William Samuel, M. D., 32 North State St., Chicago, Ill. (58). **K**

Sadowski, Leon, M. D., cor. Webster and Herron Aves., Pittsburgh, Pa. (58). **K**

*Sadtler, Samuel Philip, Ph. D., LL. D., 39 South Tenth St., Philadelphia, Pa. (51). 1904. **C**

*Saegmuller, George N., 762 St. Paul St., Rochester, N. Y. (38). 1891. **A D**

*Safford, Frederick Hollister, Ph. D., Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. (54). 1906. **A B D**

*Safford, William Edwin, U. S. Department of Agriculture, Washington, D. C. (55). 1911. **E F G H I**

*Sage, John Hall, Secretary, American Ornithologists' Union, Portland, Conn. (23.) 1906. **F**

Sailer, Joseph, M. D., Professor of Clinical Medicine, University of Pennsylvania, Philadelphia, Pa. (65). **K**

*St. John, Charles Edward, Ph. D., Mt. Wilson Solar Observatory, Pasadena, Cal. (46). 1900. **A B**

St. John, E. Quintard, M. D., 1833 Chestnut St., Philadelphia, Pa. (60). **C K**

*Sajous, Charles E. de M., M. D.. LL. D., 2043 Walnut St., Philadelphia, Pa. (54). 1906. **K**

Salathé, Frederick. Ph. D., 822 East Third St., Los Angeles, Cal. (51). **C**

Salinger, David, M. D., 103 State St., Chicago, Ill. (60). **K**

*Salisbury, Rollin D., LL. D., Professor of Geographic Geology, University of Chicago, Chicago, Ill. (37). 1890. **B E**

Salisbury, Samuel Henry, Jr., Lehigh University, South Bethlehem, Pa. (57). **C**

Salmon, S. C., Kansas State Agricultural College, Manhattan, Kans. (66). **M**

Salter, Allen, M. D., Lena, Ill. (58). **K**

*Sammis, John Langley, Ph. D., Associate Professor of Dairy Husbandry, College of Agriculture, University of Wisconsin, Madison, Wis. (58). 1911. **C M**

Sampson, Arthur William, 3026 St. Paul St., Baltimore, Md. (64). **G**

Sanborn, Mrs. Helen P., 1020 Dolores St., San Francisco, Cal. (66).

Sanborn, R. E., 2121 Webster St., Oakland, Cal. (65).

Sandblad, Andrew G., M. D., 728 South Union Ave., McKeesport, Pa. (58). **K**

Sanders, George E., Entomological Branch, Department of Agriculture, Ottawa, Canada. (60). **F**

*Sanders, James G., Associate Professor of Economic Entomology, College of Agriculture, University of Wisconsin, Madison, Wis. (54). 1913. **F**

Sanders, William Brownell, 3133 Euclid Ave., Cleveland, Ohio. (63).

*Sanderson, Ezra Dwight, Director, West Virginia Agricultural Experiment Station, Morgantown, W. Va. (50). 1904. **F**

Sanderson, Miss Mary R., McDowell, Ariz. (58). **H**

Sandsten, Emil Peter, Ph. D., State Agricultural College, Fort Collins, Colo. (54). **F**

Sanes, Kay I., M. D., 519 Jenkins Building, Pittsburgh, Pa. (51). **K**

*Sanford, Edmund Clark, Sc. D., Ph. D., President, Clark University, Worcester, Mass. (49). 1902. **H K L**

*Sanford, Fernando, Professor of Physics, Leland Stanford Junior University, Stanford University, Cal. (50). 1901. **B**

Sanford, Samuel, U. S. Bureau of Mines, Washington, D. C. (58). **E**

Sang, Alfred, 96 Boulevard de Versailles, St. Cloud, S. et O., France. (58). **C D**

Sanger, Frank Dyer, M. D., 525 North Charles St., Baltimore, Md. (57). **H K**

Santee, Leon B., M. D., R. F. D., Limaville, Ohio. (60). **K**

*Sardeson, Frederick William, Ph. D., Assistant Professor of Geology, University of Minnesota, Minneapolis, Minn. (50). 1906. **E**

Sargent, Ara Nathaniel, M. D., 116 Federal St., Salem, Mass. (51). **K**

*Sargent, Dudley Allen, M. D., Sc. D., Director, Hemenway Gymnasium, Harvard University, Cambridge, Mass. (47). 1899. **H I K L**

*Sargent, Frederick Le Roy, 27 Everett St., Cambridge, Mass. (54). 1911. **G L**

Sargent, Henry Bradford, M. E., 247 Church St., New Haven, Conn. (60). **D**

Sargent, Herbert E., Wolfeboro, N. H. (63). **G L**

*Sargent, Homer Earle, Detroit, Minnesota. (58). 1913. **H**

Sargent, Porter Edward, 50 Congress St., Boston, Mass. (65). **G L**

Sarle, Clifton J., Department of Geology, St. Lawrence University, Canton, N. Y. (55). **E**

*Sasscer, E. Ralph, Bureau of Entomology, U. S. Department of Agriculture, Washington, D. C. (58). 1914. **F**

Satterlee, Frederick Le Roy, M. D., 6 West 56th St., New York, N. Y. (50). **C D**

Satterthwait, Alfred F., Experiment Station Building, La Fayette, Ind. (57). **F**

*Saunders, Arthur Percy, Ph. D., Dean and Professor of Chemistry, Hamilton College, Clinton, N. Y. (48). 1900. **C**

Saunders, Bertram H., Hamilton Club, Paterson, N. J. (63). **H**

*Saunders, Charles Edward, Ph. D., Central Experimental Farms, Ottawa, Canada. (41). 1895. **G**

Saunders, Charles Winston, Professor of Physics and Chemistry, State Normal School, Jacksonville, Ala. (58). **A B C G**

Saunders, Edward W., M. D., 1541 South Grand Ave., St. Louis, Mo. (51). **C K**

*Saunders, Frederick Albert, Ph. D., Professor of Physics, Vassar College, Poughkeepsie, N. Y. (48). 1906. **B**

Saunders, William E., E. M., Torresdale, Philadelphia, Pa. (58). **D**

*Saurel, Paul Louis, Sc. D., Ph. D., Associate Professor of Mathematics, College of the City of New York, New York, N. Y. (58). 1909. **A**

Savage, Elmer Seth, Ph. D., Assistant Professor of Animal Husbandry, Cornell University, Ithaca, N. Y. (63). **F M**

Savage, George Hubbard, care A. A. Wire Co., Inc., 48 Nesbitt St., Newark, N. J. (58). **B C D**

*Savage, Thomas Edmund, Ph. D., Assistant Professor of Stratigraphic Geology, University of Illinois, Urbana, Ill. (52). 1908. **E**

Savery, William, University of Washington, Seattle, Wash. (65).

*Saville, Marshall Howard, Professor of American Archæology, Columbia University, New York, N. Y. (39). 1892. **H**

Sawtelle, William Otis, Haverford College, Haverford, Pa. (57). **A B**

Sawyer, Arthur Rodney, E. E., Professor of Physics and Electrical Engineering, Michigan Agricultural College, East Lansing, Mich. (58). **BD**

Sawyer, John P., M. D., 536 Rose Building, Cleveland, Ohio. (60). **K**

Sawyer, M. Louise, 839 Church St., Beloit, Wis. (60). **A D**

Saxer, A. H., Logan, Utah. (66).

Saxton, Dr. Lynn Mateer, College of the City of New York, New York, N. Y. (58). **A L**

*Sayles, Robert Wilcox, 263 Hammond St., Chestnut Hill, Mass. (55). 1911. **E**

*Sayre, Herbert Armistead, Ph. D., Professor of Mathematics, University of Alabama, University, Ala. (54). 1906. **A**

Scace, Lee Arbor, M. D., Employees Hospital Association, Centralia, Wash. (64). **K**

Scaife, Marvin F., E. M., 6407 5th Ave., Pittsburgh, Pa. (60). **D**

Scaife, William Lucien, E. M., 313 Sixth Ave., Pittsburgh, Pa. (51). **B D**

Scarborough, James Blaine, Department of Mathematics, North Carolina College of A. and M. Arts, West Raleigh, N. C. (66). **A**

Schaak, Milton Franklin, Ph. D., 108 Penn St., Brooklyn, N. Y. (58). **B C**

*SCHAEBERLE, JOHN MARTIN, LL. D., 502 Second St.. Ann Arbor, Mich. (34). 1886. **A**

*Schaefer, Marie Charlotte, M. D., University of Texas, Galveston, Texas. (58). 1913. **F K L**

*Schaeffer, Jacob Parsons, M. D., Ph. D., 509 South 46th St., Philadelphia, Pa. (60). 1913. **K**

SCHAEFFER, MRS. MARY TOWNSEND SHARPLESS, 1309 Arch St., Philadelphia, Pa. (38). **E F**

*Schaffner, John Henry, Professor of Botany, Ohio State University, Columbus, Ohio. (48). 1899. **G**

*Schaller, Waldemar Theodore, Ph. D., U. S. Geological Survey, Washington, D. C. (53). 1910. **C E**

Schaller, Walter F., M. D., 610 City of Paris Building, San Francisco, Cal. (66). **K**

Schapper, Ferdinand C., 617 Arlington Place, Chicago, Ill. (60). **C**

Scharar, Christian H., 2073 North Main Ave., Scranton, Pa. (33). **A D E H**

*Schaub, Ira O., West Raleigh, N. C. (58). 1911. **C E**

Schenck, W. Edwards, M. D., 19 West 7th St., Cincinnati, Ohio. (60). **K**

Scherer, Norman W., Assistant Professor of Forestry, Ohio State University, Columbus, Ohio. (66). **M**

Scherf, Charles Henry, 568 Cherry St., Elizabeth, N. J. (53). **E F G**

SCHERMERHORN, FREDERICK AUGUSTUS, E. M., 101 University Place, New York, N. Y. (36). **D**

*Schiedt, Richard Conrad, Sc. D., Ph. D., Professor of Biology, Franklin and Marshall College, Lancaster, Pa. (50). 1913. **F**

Schieffelin, William Jay, Ph. D., 5 East 66th St., New York, N. Y. (62). **C**

Schiff, David C., D. D. S., 1205 Schiller Building, Chicago, Ill. (58). **K**

Schildhauer, Edward, E. E., care Engineer's Club, 32 West 40th St., New York, N. Y. (60). **D**

*Schimpf, Henry William, M. D., 443 West 34th St., New York, N. Y. (58). 1911. **C**

Schively, Adeline F., Ph. D., 318 Winona Ave., Germantown, Pa. (65). **F G**

Schlachter, Carl H., M. E., 266 Harrison St., Passaic, N. J. (60). **D**

Schlehner, Harry Wilt, Haddonfield, N. J. (64).

*Schlesinger, Frank, Ph. D., Director, Allegheny Observatory, Allegheny, Pa. (51). 1902. **A**

*Schlesinger, Herman I., Ph. D., Associate Professor of Chemistry, University of Chicago, Chicago, Ill. (58). 1910. **C**

Schlitz, Francis A., M. D., 28 Jefferson St., Brooklyn, N. Y. (60). **K**

Schloss, Mrs. Florence L., 1809 California St., San Francisco, Cal. (65).

*Schlotterbeck, Julius Otto, Ph. D., Professor of Pharmacognosy and Botany, University of Michigan, Ann Arbor, Mich. (46). 1899. **C G**

*Schlundt, Herman, Ph. D., Professor of Chemistry, University of Missouri, Columbia, Mo. (60). 1910. **C**

Schlutz, Frederic William, M. D., 820 Donaldson Building, Minneapolis, Minn. (62). **K**

*Schmeckebier, Laurence Frederick, Ph. D., 1444 Belmont St., Washington, D. C. (50). 1902. **E I**

Schmid, H. Ernest, M. D., White Plains, N. Y. (25). **K**

Schmidt, Albert H., 228 South Fairview Ave., Park Ridge, Ill. (58). **C G**

Schmidt, Hubert, D. V. M., College Station, Texas. (65). **F K M**

Schmidt, Julian G., President, Northfield National Bank, Northfield, Minn. (65).

Schmidt, William Anton, Professor of Education, University of Oklahoma, Norman, Okla. (65). **L**

Schmitt, Waldo, U. S. National Museum, Washington, D. C. (65). **F**

*Schmitter, Ferdinand, M. D., Captain, Medical Corps, U. S. A., Department Hospital, Manila, P. I. (58). 1911. **K**

Schmitz, Nickolas, Professor of Agronomy, Maryland Agricultural College, College Park, Md. (62). **G M**

*Schmucker, Samuel Christian, Ph. D., Professor of Biology, State Normal School, West Chester, Pa. (53). 1906. **F G**

*Schneider, Albert, M. D., Ph. D., College of Pharmacy, Parnassus Ave., San Francisco, Cal. (54). 1906. **C**

*Schneider, Edward Christian, Ph. D., Head Professor of Biology, Colorado College, Colorado Springs, Colo. (55). 1911. **G K**

Schneider, Franz, Jr., Russell Sage Foundation, New York, N. Y. (63). **G H**

Schneider, Hyrum, 54 South 13th East St., Salt Lake City, Utah. (63). **E**

Schneider, Joseph, M. D., Pabst Theater Building, Milwaukee, Wis. (58). **K**

Schniewind, Heinrich, Jr., 18 West 18th St., New York, N. Y. (57).

Schobinger, John J., 920 East 44th St., Chicago, Ill. (34). **B L**

*Schoch, Eugene Paul, Ph. D., Professor of Physical Chemistry, University of Texas, Austin, Texas. (58). 1911. **B C**

Schock, Rev. David H., Pitman, N. J. (66).

Schoede, August H., Concordia, Mo. (58). **A B C**

Schoellkopf, Jacob F., 499 Delaware Ave., Buffalo, N. Y. (58). **C**

Schoemaker, Daniel M., M. D., Professor of Anatomy, St. Louis University, St. Louis, Mo. (66). **K**

Schöney, Theodosia Fowler, M. D., 500 Sheepshead Bay Road, Coney Island, N. Y. (65). **K**

Schoonhoven, John James, 773 Eastern Parkway, Brooklyn, N. Y. (52). **F H**

Schoppe, Prof. William F., Montana Agricultural Experiment Station, Bozeman, Mont. (64). **F**

*Schottenfels, Ida May, 447 East 49th Place, Chicago, Ill. (58). 1908. **A**

*Schrader, Frank Charles, U. S. Geological Survey, Washington, D. C. (62). 1914. **E**

Schrieber, Rudolph Ernst, 1500 Farwell Ave., Chicago, Ill. (64). **I**

*Schreiner, Oswald, Ph. D., Bureau of Soils, U. S. Department of Agriculture, Washington, D. C. (58). 1910. **C**

Schreiter, Henry, 50 Broad St., New York, N. Y. (65).

*Schroeder, Ernest Charles, M. D. V., Bureau of Animal Industry Experiment Station, Bethesda, Md. (62). 1911. **K**

SCHUBRING, MRS. E. J. B., 415 North Park St., Madison, Wis. (62).

*Schuchert, Charles, Professor of Paleontology, Yale University, New Haven, Conn. (52). 1905. **E**

Schuh, Richard Edwin, Ph. D., Howard University, Washington, D. C. (54). **F G**

Schulte, Edward Delavan Nelson,, Professor of Electrical Engineering, Rensselaer Polytechnic Institute, Troy, N. Y. (60). **B**

*Schulte, Herman von Wechlinger, M. D., Assistant Professor of Anatomy, Columbia University, New York, N. Y. (60). 1911. **K**

*Schultz, Alfred Reginald, Ph. D., U. S. Geological Survey, Washington, D. C. (57). 1911. **E**

Schultz, Carl H., 430–444 First Ave., New York, N. Y. (29).

*Schultz, Louis G., Oficina Meteorologica Argentina, Viamonte 640, Buenos Ayres, Argentina, S. A. (52). 1907. **B**

Schulz, William Frederick, Ph. D., Assistant Professor of Physics, University of Illinois, Urbana, Ill. (60). **B**

Schulze, August Frederick, Storrs Agricultural Experiment Station, Storrs, Conn. (65). **G**

Schumacher, Irwin C., R. F. D. 2, Yuba City, Cal. (66).

*Schurman, Jacob Gould, Sc. D., Ph. D., LL. D., President, Cornell University, Ithaca, N. Y. (49). 1901. I

Schuster, Bruno L., M. D., Harvard Medical School, Boston, Mass. (60). K

Schuster, Michael P., M. D., care Providence Hospital, El Paso, Texas. (60). K

*Schuyler, Sidney B., P. O. Box 224, Webster Groves, Mo. (58). 1913. H

Schwartz, Frederick W., 439 Hamilton St., Albany, N. Y. (57). C

*Schwarz, Eugene A., U. S. National Museum, Washington, D. C. (29). 1895. F

Schwarz, George Frederick, 1470 Beacon St., Brookline, Mass. (64). M

*Schwatt, Isaac Joachim, Ph. D., Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. (51). 1902. A

*Scofield, Carl Schurz, U. S. Department of Agriculture, Washington, D. C. (52). 1911. G

*Scott, Arthur William, Professor of Science, St. David's College, Lampeter, Great Britain. (46). 1915. A B

Scott, Charles Carrington, Professor of Chemistry, Austin College, Sherman, Texas. (63). C

*Scott, Charles Felton, Sc. D., Professor of Electrical Engineering, Yale University, New Haven, Conn. (48). 1900. B

Scott, Charles Payson Gurley, Ph. D., 1 Madison Ave., New York, N. Y. (60). E H I L

*Scott, Charlotte Angas, Sc. D., Professor of Mathematics, Bryn Mawr College, Bryn Mawr, Pa. (60). 1910. A

*Scott, Ernest Lyman, Department of Physiology, Columbia University, New York, N. Y. (63). 1915. H

*Scott, Eugene W., Vienna, Va. (63). 1914. G

Scott, Frank J., Jr., care Jones Harrison's Farm, Minneapolis, Minn. (58). C D

*Scott, Frederick Hughes, Sc. D., Ph. D., Assistant Professor of Physiology, University of Minnesota, Minneapolis, Minn. (61). 1911. K

*Scott, George Gilmore, Ph. D., Department of Physiology and Zoology, College of the City of New York, New York, N. Y. (60). 1913. F K

*Scott, Irving Day, Ann Arbor, Mich. (58). 1911. E

‖Scott, John Walter, 36 John St., New York, N. Y. (57).

*Scott, John William, Ph. D., Professor of Zoology, University of Wyoming, Laramie, Wyo. (58). 1911. F

*Scott, Walter Dill, Ph. D., Professor of Psychology, Northwestern University, Evanston, Ill. (58). 1911. H

Scott, Will, 731 Atwater Ave., Bloomington, Ind. (58). F

*Scott, William Moore, care Thomsen Chemical Co., Baltimore, Md. (50). 1906. F G

Scovel, Edward C., Lakeview, S. D. (52). I L

Scribner, Eugene D., 124 Kingsboro Ave., Gloversville, N. Y. (65).

Scribner, F. Charles, care Colt's Patent Firearms Co., Hartford, Conn. (61). **D**

Scripps, E. B., La Jolla, Cal. (66).

Scripture, Arthur M., New Hartford, N. Y. (51).

Scripture, Mrs. Edward W., 300 Central Park, West, New York, N. Y. (66). **H K**

Scudder, Heyward, 107 East 34th St., New York, N. Y. (63). **C K**

Scull, Harry, 1123 Royal Insurance Building, Chicago, Ill. (58). **I**

Scullen, Herman A., Iowa State College, Ames, Iowa. (64). **F**

Scurlock, Herbert Clay, 428 College St., Washington, D. C. (58). **B C K**

Seabrook, Harry Hartshorne, M. D., 118 East 72d St., New York, N. Y. (58). **K**

Seager, Dan G., P. O. Box 57, Thebes, Ill. (60). **C**

*Seal, Alfred Newlin, Ph. D., Professor of Chemistry and Physics, Girard College, Philadelphia, Pa. (50). 1909. **B C L**

*Seaman, Arthur Edmund, Professor of Geology and Mineralogy, Michigan College of Mines, Houghton, Mich. (53). 1906. **E**

Seaman, Emily Cromwell, Teachers College, Columbia University, New York, N. Y. (58). **C**

Seaman, Louis Livingston, M. D., 247 Fifth Ave., New York, N. Y. (58). **E K**

*Seares, Frederick Hanley, Superintendent, Computing Division, Mt. Wilson Solar Observatory, Pasadena, Cal. (58). 1911. **A**

Searle, Dr. A. C., Owatonna, Minn. (65).

*Searle, Rev. George M., Ph. D., 660 California St., San Francisco, Cal. (39). 1891. **A**

*Searle, Harriet Richardson, Ph. D., 1810 Wyoming Ave., Washington, D. C.. (49). 1903. **F**

Sears, Frederick Edmund, Westinghouse Laboratory, St. Paul's School, Concord, N. H. (47). **C E**

Sears, Henry Francis, M. D., 86 Beacon St., Boston, Mass. (50). **K**

*Seashore, Carl Emil, Ph. D., Dean, Graduate College, State University of Iowa, Iowa City, Iowa. (48). 1902. **I L**

Seawell, Benjamin Lee, Teacher of Biology, State Normal School, Warrensburg, Mo. (50). **F**

*Sedgwick, William Thompson, Sc. D., Ph. D., Professor of Biology, Massachusetts Institute of Technology, Boston, Mass. (47). 1898. **K L**

See, James W., M. E., Rentschler Building, Hamilton, Ohio. (51). **D**

*See, Thomas Jefferson Jackson, Ph. D., Professor of Mathematics, U. S. N., Naval Observatory, Mare Island, Cal. (48). 1901. **A**

Seeker, Albert F., 160 Midwood St., Brooklyn, N. Y. (60). **C**

*Seelig, Major G., M. D., Wall Building, 537 North Grand Ave., St. Louis, Mo. (54). 1906. **K**

*Seely, Henry Martyn, M. D., 3 South St., Middlebury, Vt. (58). 1910. **E**

Seely, Leslie B., 5918 Pulaski Ave., Philadelphia, Pa. (65).

*Segerblom, Wilhelm, Professor of Chemistry, Phillips Exeter Academy, Exeter, N. H. (53). 1906. **C L**

Seitz, Charles E., 100 William St., New York, N. Y. (57).

*Selby, Augustine Dawson, Professor of Botany, Ohio Agricultural Experiment Station, Wooster, Ohio. (44). 1900. **G**

Selden, Andrew Kenneth, Jr., E. E., care Crocker-Wheeler Co., Ampere, N. J. (60). **D**

Seldner, Rudolph, 383 St. Johns Place, Brooklyn, N. Y. (60). **C**

Seligman, Isaac Newton, 1 William St., New York, N. Y. (49).

*Sellards, Elias Howard, Ph. D., Florida State Geological Survey, Tallahassee, Fla. (54). 1906. **E**

*Sellers, James Freeman, Professor of Chemistry, Mercer University, Macon, Ga. (50). 1906. **C**

Sellew, Paul Kibbe, M. D., 106 Sewall Ave., Brookline, Mass. (65). **B K**

Selvage, Prof. Watson B., 146 Broad St., Catskill, N. Y. (65).

Selvidge, Robert W., George Peabody College for Teachers, Nashville, Tenn. (64). **L**

Selvig, C. G., Supt., Northwest Experiment Station, Crookston, Minn. (66). **M**

*Senior, Harold Dickinson, M. D., Bellevue Medical College, 338 East 26th St., New York, N. Y. (58). 1913. **F K**

Sergel, Charles H., 4578 Oakenwald Ave., Chicago, Ill. (58).

*Serviss, Garrett Putnam, Closter, N. J. (52). 1906. **A B E**

*Sessinghaus, Gustavus, E. M., 728 Foster Building, Denver, Colo. (50). 1915. **E**

*Setchell, William Albert, Ph. D., Professor of Botany, University of California, Berkeley, Cal. (63). 1915. **G**

Setz, C. F., Herculaneum, Mo. (60). **C**

Sever, George Francis, E. E., 13 Park Row, New York, N. Y. (49). **B D**

*Severin, Harry Charles, Professor of Entomology, South Dakota State College of A. and M. Arts, Brookings, S. D. (61). 1914. **F**

Severin, Louis, M. D., Bluffton, Indiana. (63). **K**

Severinghaus, Willard L., Department of Physics, Columbia University, New York, N. Y. (66). **B**

Severson, Burns Oscar, Assistant Professor of Animal Husbandry, Pennsylvania State College, State College, Pa. (66). **F M**

Sevin, Gertrude K., Agnes Scott College, Decatur, Ga. (63). **F**

Sewell, John Stephen, C. E., Alabama Marble Co., Gantt's Quarry, Ala. (58). **D**

*Seyfert, Stanley Sylvester, E. E., Assistant Professor of Electrical Engineering, Lehigh University, South Bethlehem, Pa. (60). 1915. **D**

*Seymour, Paul Henry, Urbana University Schools, Urbana, Ohio. (44). 1896. **C**

Seymour, Raymond Jesse, M. D., Assistant Professor of Physiology, Ohio State University, Columbus, Ohio. (60). **K**

*Shafer, George Daniel, Ph. D., Michigan Agricultural College, East Lansing, Mich. (58). 1915. **F**

*Shafer, John A., Custodian of the Museums, New York Botanic Garden, Bronx Park, New York, N. Y. (51). 1911. **G**

Shaffer, Newton Melman, M. D., Surgeon in Chief, New York State Hospital for Crippled and Deformed Children, 28 East 38th St., New York, N. Y. (60). **K**

*Shaffer, Philip Anderson, Ph. D., Professor of Biological Chemistry, Washington University Medical School, St. Louis, Mo. (58). 1911. **K**

*Shambaugh, George Elmer, M. D., 5625 University Ave., Hyde Park Station, Chicago, Ill. (58). 1911. **K**

Shannon, James I., S. J., Dean, School of Science and Assistant Professor of Physics, St. Louis University, St. Louis, Mo. (63). **B**

*Shantz, Homer Le Roy, Ph. D., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (50). 1904. **G**

*Share, William Waldemar, Ph. D., Professor of Chemistry, Adelphi College, Brooklyn, N. Y. (57). 1910. **A B C D E L**

Sharp, Charles Cutler, C. E., Nelsonville, Ohio. (50). **D E**

*Sharp, Clayton Halsey, Ph. D., 118 Fisher Ave., White Plains, N. Y. (45). 1897. **B D**

Sharp, Edward Affleck, M. D., 481 Franklin St., Buffalo, N. Y. (56). **H K**

Sharp, James G., M. D., 710 Butler Building, San Francisco, Cal. (66). **K**

*Sharp, Lester W., New York State College of Agriculture, Ithaca, N. Y. (62). 1915. **G M**

*Sharpe, Richard Worthy, 99 Woodruff Ave., Brooklyn, N. Y. (62). 1915. **F**

*Sharples, Philip Price, 90 Porter St., Montclair, N. J. (47). 1911. **C F**

*Sharples, Stephen Paschall, E. M., 26 Broad St., Boston, Mass. (29). 1884. **C E G**

*Sharwood, William John, Ph. D., care Homestake Mining Co., Lead, S. D. (58). 1912. **C D E**

*Shattuck, Charles Houston, Ph. D., Professor of Forestry, University of Idaho, Moscow, Idaho. (58). 1911. **G M**

*Shattuck, Frederick Cheever, M. D., Sc. D., LL. D., Professor of Clinical Medicine, Harvard Medical School, Boston, Mass. (50). 1901. **F K**

*Shattuck, George Brune, M. D., 183 Beacon St., Boston, Mass. (54). 1911. **K**

Shattuck, Harold B., Associate Professor of R. R. Engineering, Pennsylvania State College, State College, Pa. (58). **D**

Shatzer, Charles Gallatin, Professor of Geology and Biology, Wittenberg College, Springfield, Ohio. (63). **E F**

Shaw, Charles Frederick, Professor of Soil Technology, College of Agriculture, Berkeley, Cal. (58). **M**

*Shaw, Eugene Wesley, U. S. Geological Survey, Washington, D. C. (60). 1911. **E**

Shaw, Frederick William, M. D., Tiffin, Ohio. (65). **F K**

*Shaw, Harry B., 1054 East 14th St., Brooklyn, N. Y. (61). 1913. **G**

Shaw, Henry Clay, C. E., 63 Thorn St., Sewickley, Pa. (51). **D**

*Shaw, James Byrnie, Sc. D., Assistant Professor of Mathematics, University of Illinois, Urbana, Ill. (58). 1908. **A**

Shaw, Mrs. John C., Mount Pleasant, Finderne, N. J. (57).

*Shaw, Reuben Taylor, 245 South 51st St., Philadelphia, Pa. (60). 1911. **C**

*Shaw, Walter Robert, Ph. D., Bureau of Science, Manila, P. I. (47). 1902. **F G**

Shaw, William Thomas, Professor of Zoology and Curator of Museum, State College of Washington, Pullman, Wash. (62). **F**

Shaw, Wilson A., Cashier, Merchants and Manufacturers National Bank, Pittsburgh, Pa. (50). **I**

*Shea, Daniel William, Ph. D., Professor of Physics, Catholic University of America, Washington, D. C. (54). 1906. **B**

SHEAFER, ARTHUR WHITCOMB, E. M., Pottsville, Pa. (28).

*Shear, Cornelius Lott, Ph. D., U. S. Department of Agriculture, Washington, D. C. (49). 1901. **G**

*Shearer, John Sanford, Ph. D., Professor of Physics, Cornell University, Ithaca, N. Y. (52). 1906. **B**

*Shedd, John Cutler, Ph. D., Professor of Physics, Olivet College, Olivet, Mich. (50). 1906. **A B**

*Shedd, Solon, Ph. D., Professor of Geology, State College of Washington, Pullman, Wash. (51). 1906. **E**

Shedlock, Alfred, M. E., 45 Broadway, New York, N. Y. (57). **D**

Sheffield, George St. John, Twin Elms Farm, Attleboro, Mass. (50). **I**

Sheib, Samuel H., M. D., Vanderbilt University Medical School, Nashville, Tenn. (65). **K**

Sheldon, Mrs. Jennie M. Arms, Deerfield, Mass. (44). **E F**

*Sheldon, John Lewis, Ph. D., Professor of Botany and Bacteriology, West Virginia University, Morgantown, W. Va. (50). 1904. **G**

*Sheldon, Ralph Edward, Ph. D., Associate Professor of Anatomy, University of Pittsburgh, Pittsburgh, Pa. (56). 1911. **F K**

*Sheldon, Samuel, Sc. D., Ph. D., Professor of Physics and Electrical Engineering, Polytechnic Institute, Brooklyn, N. Y. (42). 1894. **B D L**

*Shelford, Victor Ernest, Ph. D., Assistant Professor of Zoology, University of Illinois, Urbana, Ill. (58). 1913. **F**

Shellenbarger, Rufus Clark, Constantine, Mich. (63). **B**

Shelly, Edwin T., M. D., Atchison, Kans. (60). **K**

*Shenehon, Francis C., Dean, College of Engineering, University of Minnesota, Minneapolis, Minn. (61). 1912. **D**

*Shepard, Edward Martin, Sc. D., Professor of Geology, Drury College, Springfield, Mo. (63). 1913. **E**

*Shepard, John Frederick, Ph. D., Assistant Professor of Psychology, University of Michigan, Ann Arbor, Mich. (54). 1911. **H K**

*Shepardson, George Defrees, Professor of Electrical Engineering, University of Minnesota, Minneapolis, Minn. (60). 1911. **D**

SHEPHERD, MISS ELIZABETH, 253 West 128th St., New York, N. Y. (39).

Shepherd, Frank I., Yorba Linda, Cal. (48). **C E K**

Shepherd, W. T., Ph. D., Dean, Waynesburg College, Waynesburg, Pa. (63).

Sheppard, Elizabeth Padgett, Normal School, Trenton, N. J. (66). **F**

Sheppard, George Quinton, Senior Master, The Hill School, Pottstown, Pa. (60). **A**

*Shepperd, John Henry, Vice-Director, Department of Agriculture, North Dakota Agricultural College, Fargo, N. D. (54). 1911. **G M**

Sherburne, Andrew E., M. D., 46 Brent St., Dorchester Center, Mass. (60). **K**

Sherman, E. Amelia, M. D., R. F. D. 2, McGregor, Iowa. (58). **K**

Sherman, Harry Mitchell, M. D., 2125 Jackson St., San Francisco, Cal. (66). **K**

Sherman, Helen, 176 Mason St., Milwaukee, Wis. (64). **G**

*Sherman, Henry Clapp, Ph. D., Dept. of Analytical Chemistry, Columbia University, New York, N. Y. (51). 1906. **C L**

Sherman, Lewis, M. D., 448 Jackson St., Milwaukee, Wis. (50). **G K**

Sherwood, George Herbert, Curator, Department of Public Instruction, American Museum of Natural History, New York, N. Y. (56). **F**

*Sherzer, William Hittell, Ph. D., Professor of Natural Sciences, State Normal College, Ypsilanti, Mich. (58). 1908. **E H L**

Shideler, W. H., Oxford, Ohio. (64).

*Shidy, Leland Perry, U. S. Coast and Geodetic Survey, Washington, D. C. (52). 1911. **B G**

*Shiels, Albert, Board of Education, New York, N. Y. (65). 1915. **L**

*Shimek, Bohumil, C. E., Professor of Physiological Botany, State University of Iowa, Iowa City, Iowa. (52). 1904. **E G**

*Shimer, Hervey Woodburn, Ph. D., Associate Professor of Geology, Massachusetts Institute of Technology, Boston, Mass. (53). 1909. **E**

*Shimer, Porter William, E. M., Ph. D., Easton, Pa. (38). 1889. **C D**

*Shingler, George Pinckney, Jr., Professor of Chemistry, Emory College, Oxford, Ga. (58). 1915. **C**

*Shinn, Owen Louis, Ph. D., Professor of Applied Chemistry, University of Pennsylvania, Philadelphia, Pa. (58). 1910. **C**

Shira, Austin F., Director, U. S. Biological Station, Fairport, Iowa. (63). **F**

Shiraishi, Naoji, C. E., 22 Igura Yochome, Azabu, Tokyo, Japan. (60). **D**

*Shiras, George, 3d, Stoneleigh Court, Washington, D. C. (63). 1914. **F**

Shoemaker, Frank H., Zoological Laboratory, University of Nebraska, Lincoln, Nebr. (62). **F**

Shoemaker, Henry Wharton, 21 West 53d St., New York, N. Y. (57). **E F**

Shoemaker, Louis Henry, C. E., 1422 Frick Building, Pittsburgh, Pa. (60). **D**

Shoemaker, S. M., Eccleston, Md. (60).

Shore, Albert Ferdinand, 557 West 22d St., New York, N. Y. (54). **D**

*Shorey, Marian Lydia, Ph. D., Professor of Biology, Milwaukee-Downer College, Milwaukee, Wis. (62). 1913. **F**

*Short, Robert Louis, Principal, West Technical High School, Cleveland, Ohio. (55). 1908. **A**

Shott, John A., Professor of Psychology and Education, Westminster College, New Wilmington, Pa. (53). **B H L**

Shoudy, William Allen, M. E., Stevens Institute of Technology, Hoboken, N. J. (60). **D**

Show, John Harry, P. O. Box 713, Alliance, Nebr. (63). **C**

Shrawder, Joseph, care Chestnut Blight Commission, Zoology Building, University of Pennsylvania, Philadelphia, Pa. (60). **C**

*Shreve, Forrest, Ph. D., Desert Botanical Laboratory of the Carnegie Institution, Tucson, Ariz. (57). 1909. **G**

Shuler, Prof. Ellis W., 60 Kirkland St., Cambridge, Mass. (60). **E**

*Shull, Aaron Franklin, Ph. D., Junior Professor of Zoology, University of Michigan, Ann Arbor, Mich. (58). 1913. **F**

*Shull, Charles Albert, Associate Professor of Plant Physiology and Genetics, University of Kansas, Lawrence, Kansas. (58). 1915. **F G**

*Shull, George Harrison, Ph. D., Professor of Botany and Genetics, Princeton University, Princeton, N. J. (53). 1905. **G**

Shumway, Royal Raiss, Assistant Professor of Mathematics, University of Minnesota, Minneapolis, Minn. (62). **A**

Shurtleff, Eugene, M. D., 517 Shawmut Ave., Boston, Mass. (52). **K**

*Shute, Daniel Kerfoot, M. D., 1719 De Sales St. N. W., Washington, D. C. (50). 1906. **F I K**

*Shutt, Frank Thomas, Dominion Experimental Farms, Ottawa, Canada. (47). 1898. **C**

Sickels, Ivin, M. D., Professor of Natural History, College of the City of New York, New York, N. Y. (50). **F K**

Sickenberger, Ernest F., M. D., Carlstadt, N. J. (60). **K**

Sidener, Charles Frederick, Professor of Chemistry, University of Minnesota, Minneapolis, Minn. (58). **C**

*Siebel, John Ewald, Ph. D., Director, Zymotechnic Institute, 960 Montana St., Chicago, Ill. (57). 1911. **B C D K**

Siedenburg, Prof. Frederic, S. J., Loyola University, Chicago, Ill. (53). **I L**

Sieplein, Otto Julius, Professor of Chemistry, Grove City College, Grove City, Pa. (64). **C**

*Sies, Raymond William, Professor of School Administration, University of Pittsburgh, Pittsburgh, Pa. (62). 1915. **L**

Sifton, Harold Boyd, Department of Botany, University of Toronto, Toronto, Canada. (66). **G**

*Sigerfoos, Charles Peter, Ph. D., Professor of Zoology, University of Minnesota, Minneapolis, Minn. (54). 1906. **F**

*Sigsbee, Charles Dwight, Rear Admiral, U. S. N., Retired, 539 West 112th St., New York, N. Y. (28). 1882. **E**

Silber, Frederick D., 5632 Washington Ave., Hyde Park Station, Chicago, Ill. (58). **D**

*Siler, Joseph Franklin, M. D., Captain, Medical Corps, U. S. A., Army Building, New York, N. Y. (65). 1915. **F K**

*Silvester, Charles Frederick, Curator, Zoological Museum, Princeton University, Princeton, N. J. (54). 1913. **F**

Silvestri, Hugo, Consul of Austria-Hungary, 108 South La Salle St., Chicago, Ill. (58). **I**

Simes, Mrs. William, 46 Chestnut St., Boston, Mass. (60).

*Simmons, George H., M. D., LL. D., Secretary, American Medical Association, 712 Gordon Terrace, Chicago, Ill. (58). 1914. **K**

Simms, Bennett Thomas, D. V. M., Professor of Veterinary Medicine, Oregon State Agricultural College, Corvallis, Oregon. (65). **K**

*Simon, Charles Edmund, M. D., 1734 Linden Ave., Baltimore, Md. (58). 1910. **K**

*Simon, William, M. D., Ph. D., Catonsville, Md. (29). 1895. **C**

Simonds, Ossian Cole, C. E., 1101 Buene Ave., Chicago, Ill. (58). **G**

Simons, Etoile B., Ph. D., 7539 Colfax Ave., Chicago, Ill. (57). **G**

Simons, James E., M. D., Bay City, Texas. (60). **K**

Simonson, William, 126 West 9th St., Cincinnati, Ohio. (57). **C**

Simpson, B. R., 476 Eastern Parkway, Brooklyn, N. Y. (64). **H**

Simpson, Frank M., Professor of Physics, Bucknell University, Lewisburg, Pa. (58). **B**

*Simpson, Howard Edwin, Assistant Professor of Geology, University of North Dakota, University, N. D. (62). 1914. **E**

Simpson, J. A., M. D., 638 20th St., San Francisco, Cal. (60). **K**

Simpson, Jesse Pickrell, M. D., Palmer, Ill. (51). **F H K**

Simpson, John Crayke, M. D., 1421 Massachusetts Ave., Washington, D. C. (51). **H I K L**

Simpson, John Nathan, M. D., Dean, School of Medicine, West Virginia University, Morgantown, W. Va. (65). **K**

Simpson, Paul D., C. E., Sullivan Harbor, Me. (60). **D**

*Simpson, Quintus Irvin, Palmer, Ill. (54). 1913. **F K**

*Simpson, Sutherland, M. D., Sc. D., Professor of Physiology, Cornell University, Ithaca, N. Y. (62). 1911. **K**

Sims, Clough William, Sherman, Texas. (58). **B C**

Sinclair, Alexander Grant, M. D., LL. D., 126 North Court Ave., Memphis, Tenn. (52). **K**

*Sinclair, Cephas Hempstone, U. S. Coast and Geodetic Survey, Washington, D. C. (52). 1908. **D**

Sinclair, John George, Department of Zoology, University of Chicago, Chicago, Ill. (65). **F**

*Sinclair, Mary Emily, Ph. D., Associate Professor of Mathematics, Oberlin College, Oberlin, Ohio. (58). 1911. **A**

Singer, H. Douglas, M. D., Kankakee, Ill. (60). **K**

Singewald, Joseph T., Jr., Ph. D., Department of Geology, Johns Hopkins University, Baltimore, Md. (66). **E**

*Sinnott, Edmund Ware, Ph. D., Bridgewater, Mass. (60). 1915. **G**

Sisson, Edward O., Boise, Idaho. (66).

*Sisson, Septimus, Professor of Comparative Anatomy, Ohio State University, Columbus, Ohio. (58). 1913. **F H K**

Sizer, Frank L., Dos Cabezos, Arizona. (65).

Sjöström, Ivar L., C. E., Lawrence, Mass. (60). **D**

Skeel, Franklin Deuel, M. D., 361 Mott Ave., New York, N. Y. (65). **K**

*Skinner, Aaron Nichols, Professor of Mathematics, U. S. N., The Alabama, Washington, D. C. (40). 1893. **K**

*Skinner, Clarence Aurelius, Ph. D., Professor of Physics, University of Nebraska, Lincoln, Nebr. (48). 1903. **B**

*Skinner, Ernest Brown, Ph. D., Associate Professor of Mathematics, University of Wisconsin, Madison, Wis. (58). 1909. **A**

*Skinner, Henry, M. D., The Academy of Natural Sciences, Philadelphia, Pa. (47). 1902. **F G K L**

*Skinner, Prof: Joseph John, Kenwood, N. Y. (23). 1880. **A B**

Skinner, Stanbridge A., 432 West Olive Ave., Redlands, Cal. (58). **C E F K**

*Skinner, William W., Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (60). 1911. **C**

Slack, Henry R., M. D., Superintendent, The La Grange Sanitarium, La Grange, Georgia. (60). **K**

Slade, Elisha, Somerset, Mass. (29). **F**

*Sladen, Frank Joseph, M. D., Johns Hopkins Hospital, Baltimore, Md. (63). 1915. **K**

*Slagle, Robert Lincoln, Ph. D., President, State College of A. and M. Arts, Brookings, S. D. (50). 1909. **C E**

Slater, Florence Wells, Washington Irving High School, Irving Place. New York, N. Y. (60). **F**

*Slaught, Herbert Ellsworth, Ph. D., Associate Professor of Mathematics, University of Chicago, Chicago, Ill. (58). 1908. **A**

Sleeman, Herbert R., E. M., Whim Creek, West Australia. (60). **D**

*Slemons, J. Morris, M. D., Professor of Obstetrics and Gynecology, University of California, Berkeley, Cal. (60). 1914. **K**

Slepian, Joseph, Ph. D., 134 College Ave., Ithaca, N. Y. (66). **A B**

*Slichter, Charles Sumner, Professor of Applied Mathematics, University of Wisconsin, Madison, Wis. (51). 1902. **A**

*Slipher, Vesto Melvin, Ph. D., Lowell Observatory, Flagstaff, Ariz. (52). 1908. **A B**

Sloan, Augustus Kellogg, Sloan Engineering Co., 240–246 Hall St., Brooklyn, N. Y. (65). **D**

Sloan, Benson Bennett, 41 East 65th St., New York, N. Y. (57). **D**

*Sloan, Earle, State Geologist, U. S. Geological Survey, Charleston, S. C. (62). 1913. **E**

Sloan, Robert T., M. D., 1125 Rialto Building, Kansas City, Mo. (60). **K**
Sloan, William Henry, P. O. Box 105, Palo Alto, Cal. (65). **C**
Slobin, Hermon Lester, Ph. D., Department of Mathematics, University of Minnesota, Minneapolis, Minn. (62). **A B**
*Slocom, Arthur Ware, 5549 Dorchester Ave., Chicago, Ill. (58). 1911. **E**
Slocum, Miss Anna D., Pond St., Jamaica Plain, Mass. (61).
*Slocum, Charles Elihu, M. D., Ph. D., 218 13th St., Toledo, Ohio. (34). 1913. **E H K**
*Slocum, Frederick, Ph. D., Professor of Astronomy, Wesleyan University, Middletown, Conn. (47). 1906. **A**
Slocum, George, M. D., University of Michigan, Ann Arbor, Mich. (65). **K**
Slocum, Miss Laura, Pond St., Jamaica Plain, Mass. (61).
*Slonaker, J. Rollin, Ph. D., 334 Kingsley Ave., Palo Alto, Cal. (49). 1913. **F**
*Slosson, Edwin Emery, Ph. D., Literary Editor, *The Independent*, 530 West 123d St., New York, N. Y. (50). 1901. **L**
Slye, Miss Maud, 5844 Drexel Ave., Hyde Park Station, Chicago, Ill. (62). **F**
*Smail, Lloyd Leroy, Ph. D., University of Washington, Seattle, Wash. (64). 1915. **A**
*Small, John Kunkel, Sc. D., Ph. D., New York Botanic Garden, New York, N. Y. (44). 1902. **G**
Smallwood, Miss Mabel Elizabeth, Lane Technical High School, Chicago, Ill. (52). **F G**
*Smallwood, William Martin, Ph. D., Professor of Comparative Anatomy, Syracuse University, Syracuse, N. Y. (50). 1903. **E F**
Smead, Annie Elizabeth, 624 Nessle St., Toledo, Ohio. (65). **C K**
Smeaton, William Gabb, 605 Oxford Road, Ann Arbor, Mich. (57). **C**
Smersh, Francis M., M. D., Owatonna, Minn. (60). **K**
Smillie, Thomas W., U. S. National Museum, Washington, D. C. (40). **F**
Smith, Albert L., 9432 Howard Court, Chicago, Ill. (60). **C**
*Smith, Albert William, Ph. D., Professor of Metallurgy, Case School of Applied Science, Cleveland, Ohio. (47). 1900. **C**
*Smith, Alexander, Ph. D., Professor of Chemistry, Columbia University, New York, N. Y. (40). 1892. **C L**
Smith, Alfred, Ring Place, Price Hill, Cincinnati, Ohio. (58). **C**
Smith, Alfred, 2515 Vine St., Berkeley, Cal. (65).
Smith, Alice Maude, M. D., Chicago State Hospital, Dunning, Chicago, Ill. (53). **H I K L**
*Smith, Allen John, M. D., Sc. D., LL. D., Professor of Pathology, University of Pennsylvania, Philadelphia, Pa. (47). 1905. **H K**
*Smith, Mrs. Annie Morrill, 78 Orange St., Brooklyn, N. Y. (49). 1911. **G**
Smith, Arthur Bessey, E. E., Automatic Electric Co., Chicago, Ill. (64). **D**
*Smith, Arthur George, Professor of Mathematics and Astronomy, State University of Iowa, Iowa City, Iowa. (50). 1909. **A**

*Smith, Arthur Whipple, Ph. D., Associate Professor of Mathematics, Colgate University, Hamilton, N. Y. (58). 1910. **A**

*Smith, Arthur Whitmore, Ph. D., Professor of Physics, University of Michigan, Ann Arbor, Mich. (44). 1906. **B**

*Smith, Bertram G., Assistant Professor of Zoology, State Normal College, Ypsilanti, Mich. (61). 1914. **F**

*Smith, Burnett, Ph. D., Skaneateles, N. Y. (54). 1911. **E F**

Smith, C. Arthur, 148 12th St., Salt Lake City, Utah. (66). **B D**

*Smith, Charles Campbell, 518 Hastings St., West, Vancouver, Canada. (62). 1915. **A**

Smith, Charles Dennison, M. D., Superintendent, Maine General Hospital, Portland, Me. (58). **F G K**

*Smith, Charles Henry, 5517 Cornell Ave., Chicago, Ill. (60). 1909. **A**

*Smith, Charles J., Professor of Mathematics, Western Reserve University, Cleveland, Ohio. (32). 1885. **A B**

*Smith, Charles Marquis, Associate Professor of Physics, Purdue University, La Fayette, Ind. (58). 1911. **B**

Smith, Charles Oliver, E. E., Morton, Washington. (65). **D**

*SMITH, CLARA ELIZA, Ph. D., 90 Shafer Hall, Wellesley, Mass. (60). 1911. **A**

Smith, Claude A., M. D., Chamber of Commerce Building, Atlanta, Ga. (58). **K**

Smith, Clayton O., Agricultural Experiment Station, Whittier, Cal. (65). **G M**

Smith, Clayton Sidney, Ph. D., Congress and Honore Sts., Chicago, Ill. (65). **F**

Smith, Cora A., 947 West 8th St., Erie, Pa. (64).

Smith, D. Laurence, M. D., 204–205 Peyton Block, Spokane, Wash. (60). **K**

*Smith, David Eugene, Ph. D., LL. D., Professor of Mathematics, Teachers College, Columbia University, New York, N. Y. (58). 1909. **A L**

Smith, Delavan, Lake Forest, Ill. (60). **I**

Smith, Dudley, M. D., Hotel Oakland, Oakland, Cal. (60). **K**

Smith, Dwight T., P. O. Box 531, Virginia City, Nev. (65).

Smith, E. Eggleston, 7 Richmond Terrace, Whitehall, London, England. (63). **E**

*Smith, Edgar Fahs, Sc. D., Ph. D., LL. D., Provost, University of Pennsylvania, Philadelphia, Pa. (33). 1891. **C E L**

Smith, Edward Sanborn, M. D., 301 North Rawlins St., Macon, Mo. (58). **K**

Smith, Eli Victor, Ph. D., Assistant Professor of Zoology, University of Washington, Seattle, Wash. (63). **F**

*Smith, Elliott, Ph. D., Cincinnati Observatory, Cinncinati, Ohio. (58). 1913. **A**

*Smith, Erastus Gilbert, Ph. D., Director, Beloit Sanitary Laboratory, Beloit, Wis. (34). 1887. **C**

*Smith, Ernest Ellsworth, M. D., Ph. D., Suite 80, Chemists Building, New York, N. Y. (43). 1898. **C F K**

*Smith, Erwin Frink, Sc. D., U. S. Department of Agriculture, Washington, D. C. (34). 1890. **G**

*Smith, Eugene Allen, Ph. D., LL. D., State Geologist, University, Alabama. (20). 1877. **C E**

*Smith, Eugene Randolph, Headmaster, The Park School, Auchentoroly Terrace, Baltimore, Md. (58). 1911. **A**

*Smith, Frances Grace, Ph. D., Associate Professor of Botany, Smith College, Northampton, Mass. (57). 1911. **G**

*Smith, Francis Henry, LL. D., Quarters G, Navy Yard, Washington, D. C. (54). 1906. **A B**

*Smith, Frank, Professor of Systematic Zoology, University of Illinois, Urbana, Ill. (49). 1900. **F**

Smith, Franklin Orion, Department of Psychology, University of Utah, Salt Lake City, Utah. (58). **H L**

Smith, Franklin Wheaton, E. M., P. O. Box 937, Bisbee, Ariz. (57). **D E**

Smith, Fred G., U. S. Food Inspection Laboratory, St. Paul, Minn. (60). **C**

Smith, Fred W., President, State School of Forestry, Bottineau, N. D. (54). **F G K M**

Smith, Frederic J., care Pierce Phosphate Company, Pierce, Fla. (58). **C F G**

*Smith, George McPhail, Ph. D., Associate in Chemistry, University of Illinois, Urbana, Ill. (58). 1911. **C**

Smith, George Hathorn, Glen Olden, Pa. (63).

Smith, George Milton, M. D., Washington University Medical School, St. Louis, Mo. (64). **K**

*Smith, George Otis, Ph. D., Director, U. S. Geological Survey, Washington, D. C. (52). 1906. **E**

*Smith, Gilbert Morgan, University of Wisconsin, Madison, Wis. (64). 1915. **G**

Smith, Grant, Chicago Teachers College, Chicago, Ill. (58). **F G L**

Smith, H. Carlton, Harvard Medical School, Boston, Mass. (56). **C**

*Smith, Harlan Ingersoll, Geological Survey of Canada, Ottawa, Canada. (41). 1896. **H**

*Smith, Harold Babbitt, E. E., Professor of Electrical Engineering, Worcester Polytechnic Institute, Worcester, Mass. (43). 1898. **B D**

Smith, Harry Scott, California State Insectary, Sacramento, Cal. (65).

Smith, Harvey, M. D., Peyton Block, Spokane, Wash. (60). **K**

*Smith, Henry Lee, M. D., F. R. S. A., 2701 North Calvert St., Baltimore, Md. (60). 1915. **K**

Smith, Henry Monmouth, Ph. D., Nutrition Laboratory, Carnegie Institution, Fenway, Boston, Mass. (58). **C**

*Smith, Herbert Stearns Squier, C. E., Professor of Civil Engineering, Princeton University, Princeton, N. J. (29). 1915. **D**

Smith, Homer Erastus, M. D., Norwich, N. Y. (60). **K**

*Smith, Howard Dexter, Ph. D., 30 Hawthorne St., Lowell, Mass. (58). 1911. **C**

*Smith, Hugh McCormick, M. D., LL. D., U. S. Commissioner of Fisheries, Washington, D. C. (52). 1906. **F K**

*Smith, Huron Herbert, Field Museum of Natural History, Chicago, Ill. (56). 1911. **G**

Smith, Isabel Seymour, Assistant Professor of Biology, Illinois College, Jacksonville, Ill. (60). **F**

Smith, J. Darrell, 7211 Boyer St., Mt. Airy, Philadelphia, Pa. (63). **D**

*Smith, J. Hammond, Professor of Civil Engineering, University of Pittsburgh, Pittsburgh, Pa. (61). 1915. **A D**

Smith, James Alnutt, St. Paul's Church, Westfield, N. J. (60). **F**

Smith, James B., El Nido, Burlingame, Cal. (66).

*Smith, James Brookes, Professor of Mathematics, Hampden-Sidney College, Hampden-Sidney, Va. (61). 1915. **A**

Smith, James Hervey, 5441 West Ohio St., Austin Station, Chicago, Ill. (40). **E**

Smith, Jared Gage, Professor of Botany, College of Hawaii, Honolulu, Hawaii. (63). **G**

Smith, Jesse L., Superintendent of Schools, Highland Park, Ill. (58).

Smith, Jesse Merrick, E. E., M. E., 90 West St., New York, N. Y. (58). **D**

*Smith, John E., University of North Carolina, Chapel Hill, N. C. (65). 1915. **F E L**

*Smith, Joseph Russell, Ph. D., Professor of Industry, University of Pennsylvania, Philadelphia, Pa. (58). 1910. **E I**

Smith, Joseph T., M. D., The Cecil, Baltimore, Md. (60). **K**

Smith, L. E., Sisson, Cal. (65).

Smith, Lee H., M. D., President, Buffalo Society of Natural Science, 663 Main St., Buffalo, N. Y. (51). **H K**

Smith, Leonard Charles Lindsay, C. E., 59 Woolsey St., Long Island City, N. Y. (60). **D**

*Smith, Louie Henrie, Ph. D., Professor of Plant Breeding, College of Agriculture, Urbana, Ill. (58). 1911. **C G**

Smith, Lucy Wright, Department of Zoology, Mt. Holyoke College, South Hadley, Mass. (63). **F**

*Smith, Margaret Keiver, Ph. D., Irvington, N. Y. (60). 1911. **H**

Smith, Middleton, Bureau of Statistics, U. S. Department of Agriculture, Washington, D. C. (52). **F**

Smith, Milton W., 413 Failing Building, Portland, Ore. (60). **I**

Smith, Morgan, M. D., 512 State National Bank Building, Little Rock, Ark. (60). **K**

Smith, Murdoch C., M. D., Lee Hall, Lynn, Mass. (60). **K**

*Smith, Newland Farnsworth, Ph. D., Professor of Physics, Central University, Danville, Ky. (63). 1913. **B**

Smith, Oakley, D. N., 8 North State Street, Chicago, Ill. (58). **K**

*Smith, Oberlin, C. E., M. E., Lochwold, Bridgeton, N. J. (58). 1911. **D**

*Smith, Percey Franklyn, Ph. D., Professor of Mathematics, Sheffield Scientific School, New Haven, Conn. (58). 1909. **A**

Smith, Philip Edward, Ph. D., University of California, Berkeley, Cal. (64). **K**

*Smith, Philip Sidney, Ph. D., U. S. Geological Survey, Washington, D. C. (47). 1909. **E**

Smith, Preston, Department of Science, State Normal School, Fitchburg, Mass. (61). **L**

Smith, R. Manson, 4 East Biddle St., Baltimore, Md. (60).

*Smith, Ralph Eliot, Professor of Plant Pathology, College of Agriculture, Berkeley, Cal. (65). 1915. **G**

Smith, Ralph Ingram, Professor of Zoology and Entomology, University of Porto Rico, Mayaguez, P. R. (54). **F**

Smith, Raymond S., Department of Agronomy, Pennsylvania State College, State College, Pa. (66). **M**

Smith, Richard R., 64 5th Ave., New York, N. Y. (65). **L**

Smith, Roy Harman, M. E., 951 Park Ave., Kent, Ohio. (58). **D**

Smith, Samuel George, D. D., Ph. D., LL. D., Professor of Sociology, University of Minnesota, Minneapolis, Minn. (60). **I**

Smith, Sedgwick, Department of Geology, Harvard University, Cambridge, Mass. (61). **E**

*Smith, Theobald, M. D., Sc. D., LL. D., 397 South St., Jamaica Plain, Boston, Mass. (61). 1911. **K**

Smith, Theodore W., Naperville, Ill. (58).

Smith Thomas Alexander, Ph. D., 320 Maryland Ave., N. E., Washington, D. C. (50). **A B**

Smith, W. Hinckle, 201 Franklin Bank Building, Philadelphia, Pa. (54).

*Smith, W. S. Tangier, Ph. D., Lodi, Cal. (50). 1906. **E**

*Smith, Warren Rufus, Ph. D., Professor of Chemistry, Lewis Institute, Chicago, Ill. (52). 1906. **C**

*Smith, William Benjamin, Ph. D., LL. D., Professor of Philosophy, Tulane University, New Orleans, La. (50). 1901. **H**

Smith, William G., Bureau of Soils, U. S. Department of Agriculture, Washington, D. C. (62). **G**

Smith, William H., M. D., 377 Beacon St., Boston, Mass. (60). **K**

Smith, William H., Jr., 6500 Ellenwood Ave., St. Louis, Mo. (63). **L**

Smith, William Hemans, 114 South Arlington Ave., East Orange, N. J. (65).

Smith, William M., University of Oregon, Eugene, Oregon. (65).

Smith, William W., Assistant Professor of Animal Husbandry, Purdue University, West Lafayette, Ind. (66). **M**

Smith, Winford H., M. D., Superintendent, Johns Hopkins Hospital, Baltimore, Md. (65). **K**

*Smock, John Conover, Ph. D., Trenton, N. J. (23). 1879. **E**

Smock, Ledru Pierson, M. D., 3330 Chestnut St., Philadelphia, Pa. (54). **K**

Smoot, Edgar K., C. E., 5A Balderas No. 70, Mexico, D. F., Mexico. (61). **D**

Smyser, J. A., 123 No. 18th St., Harrisburg, Pa. (62).

*Smyth, Charles Henry, Ph. D., Professor of Geology, Princeton University, Princeton, N. J. (38). 1894. **E**

Smyth, Ellison A., Jr., LL. D., Professor of Biology, Virginia Polytechnic Institute, Blacksburg, Va. (57). **F G**

Smyth, Henry Field, M. D., 217 Walnut Ave., Wayne, Pa. (65). **K**

Smyth, William Henry, E. E., "Fernwald," Berkeley, Cal. (65). **D**

*Sneath, E. Hershey, Ph. D., LL. D., Professor of Philosophy, Yale University, New Haven, Conn. (51). 1902. **H**

*Snedden, David, State Commissioner of Education, 500 Ford Building, Boston, Mass. (61). 1910. **L**

*Snell, John Ferguson, Ph. D., Macdonald College, Quebec, Canada. (58). 1911. **C**

*Snelling, Walter Otheman, Ph. D., Union Bank Building, Pittsburgh, Pa. (58). 1911. **C E**

Sneve, Haldor, M. D., 142 Mississippi River Boulevard, St. Paul, Minn. (51). **K**

*Snider, Luther C., Assistant Director, Oklahoma Geological Survey, Norman, Okla. (62). 1914. **E**

Snook, Harry J., 311 North Chester Ave., Pasadena, Cal. (65).

*Snow, Benjamin Warren, Ph. D., Professor of Physics, University of Wisconsin, Madison, Wis. (35). 1889. **B**

Snow, Elbridge Gerry, President, Home Insurance Co., 56 Cedar St., New York, N. Y. (57). **I**

Snow, Frederick W., E. M., care Tanganyika Concessions, Ltd., P. O. Box 76, Elisabethville, Katanga, via Cape Town and Rhodesia, Congo Belge, Africa. (60). **D**

*Snow, Laetitia Morris, Ph. D., Department of Botany, Wellesley College, Wellesley, Mass. (57). 1911. **G**

Snow, Rachel Parker, 115 Russell Ave., Watertown, Mass. (61). **A F**

Snow, William F., 105 West 40th St., New York, N. Y. (66).

*Snyder, Charles D., Ph. D., Associate Professor of Physiology, Johns Hopkins University Medical School, Baltimore, Md. (60). 1911. **K**

Snyder, Fred. D., M. D., 10 Center St., Ashtabula, Ohio. (51). **E F H K**

*Snyder, Harry, Professor of Agricultural Chemistry, University of Minnesota, Minneapolis, Minn. (44). 1897. **C M**

Snyder, John Otterbein, Professor of Zoology, Leland Stanford Junior University, Stanford University, Cal. (65). **F**

*Snyder, Monroe Benjamin, Director, Philadelphia Observatory, Philadelphia, Pa. (24). 1882. **A B**

*Snyder, Zachariah Xenophon, Ph. D., President, State Teachers College, Greeley, Colo. (50). 1907. **F**

*Solley, Fred. Palmer, M. D., 114 East 60th St., New York, N. Y. (57). 1908. **K**

*Sollmann, Torald Hermann, M. D., Professor of Pharmacology and Materia Medica, Western Reserve Medical College, Cleveland, Ohio. (52). 1906. **K**

Solomon, Harry C., M. D., 74 Fenwood Road, Boston, Mass. (65). **K**

Somers, George Burbank, 2662 Vallejo St., San Francisco, Cal. (66).

Somes, Melvin Philip, Missouri State Fruit Experiment Station, Mountain Grove, Mo. (62). **F G**

*Sondern, Frederic E., M. D., 200 West 56th St., New York, N. Y. (57). 1911. **K**

*Soper, George Albert, Ph. D., 391 West End Ave., New York, N. Y. (46). 1907. **K**

Soule, Andrew McNairn, Sc. D., Ph. D., President, Georgia State College of Agriculture, Athens, Ga. (62). **G M**

*Soule, Caroline Gray, 187 Walnut St., Brookline, Mass. (63). 1915. **F**

*Southard, Elmer Ernest, M. D., 70 Francis Ave., Cambridge, Mass. (60). 1911. **K**

Souvielle, Mathieu, M. D., P. O. Box 355, Jacksonville, Fla. (36). **B E F K**

Souvielle, Mrs. Mathieu, P. O. Box 355, Jacksonville, Fla. (24). **A B F**

Sowers, William F. M., M. D., 1707 Massachusetts Ave., Washington, D. C. (62). **K**

Sowers, Zachariah T., M. D., 1707 Massachusetts Ave., Washington, D. C. (60). **K**

Spahr, Robert Hoover, State University of Kentucky, Lexington, Ky. (63). **B**

*Spalding, Frederick Putnam, C. E., Professor of Civil Engineering, University of Missouri, Columbia, Mo. (46). 1899. **D**

*Spandau, H. M., Professor of Applied Mechanics, Whitman College, Walla Walla, Washington. (63). 1915. **H**

Spangler, Adolph James, University Farm, St. Paul, Minn. (65). **F**

Spangler, Harry Allen, M. D., Carlisle, Pa. (51). **K**

Sparre, Dr. Fin, E. I. du Pont de Nemours Powder Co., Henry Clay, Del. (63). **C**

Spaulding, Frank B., 324 Decatur St., Brooklyn, N. Y. (58). **A**

Spaulding, M. Herrick, Assistant Professor of Zoology, Montana State College of A. and M. Arts, Bozeman, Mont. (64). **F**

*Spaulding, Perley, Ph. D., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (52). 1909. **G**

Spaulding, Thomas C., Forest Supervisor, Choteau, Mont. (66). **M**

*Speare, Alden T., 4 Hudson St., East Lynn, Mass. (61). 1915. **G**

Speer, C. H., M. E., care Algoma Steel Co., Ltd., Sault Ste Marie, Canada. (58). **D**

Spelman, James F., M. D., P. O. Box 634, Anaconda, Mont. (60). **K**

Spencer, Anna Garlin, Professor of Sociology and Ethics, Meadville Theological School, Meadville, Pa. (65). **L**

*Spencer, Arthur Coe, Ph. D., U. S. Geological Survey, Washington, D. C. (52). 1905. **E**

Spencer, Eugene Jaccard, E. E., 1003 La Salle Building, St. Louis, Mo. (58). **D**

*Spencer, Joseph William, Ph. D., LL. D., 2019 Hillyer Place, Washington, D. C. (28). 1882. **E**

Spencer, Mrs. Lorillard, Chastellux, Newport, R. I. (57).
Spencer, Mary Cass, Professor of Mathematics, Newcomb College, New Orleans, La. (65). **A**
Spencer, Robert Douglas, 3728 Walnut St., Philadelphia, Pa. (63). **F**
Spencer, S. R., 516 Speight St., Waco, Texas. (64).
*SPENZER, JOHN GEORGE, M. D., Ph. D., 716 Rose Building, Cleveland, Ohio. (37). 1895. **C K**
*Sperr, Frederick William, E. M., Professor of Civil and Mining Engineering, Michigan College of Mines, Houghton, Mich. (60). 1912. **D**
Sperry, Elmer Ambrose, E. E., 100 Marlborough Road, Prospect Park, South, Brooklyn, N. Y. (51). **D**
Spicer, C. E., 100 Sherman St., Joliet, Ill. (58). **B**
Spiker, William Clare, C. E., 1504 Hurt Building, Atlanta, Ga. (60). **D**
*Spillman, William Jasper, Sc. D., U. S. Department of Agriculture, Washington, D. C. (52). 1905. **F G**
*Spinney, Louis Bevier, E. E., Professor of Physics, Iowa State College, Ames, Iowa. (52). 1897. **B D**
*Spitzka, Edward Anthony, M. D., 66 East 73d St., New York, N. Y. (54). 1906. **F H K**
Spoehr, H. A., Desert Laboratory, Tucson, Ariz. (66).
Spohn, Adelaide A., 618 Kemper Place, Chicago, Ill.
Sponsler, O. L., Professor of Forestry, University of Michigan, Ann Arbor, Mich. (66). **M**
Spooner, Charles C., 201 East Prospect St., Marquette, Mich. (64).
Spooner, Charles Stockman, P. O. Box 411, Thomasville, Ga. (57). **F**
Spragg, Frank A., Michigan Agricultural Experiment Station, East Lansing, Mich. (64). **G M**
Sprague, Frances R., M. D., Pembroke Road, Bryn Mawr, Pa. (60). **K**
*Springer, Alfred, Ph. D., 312 East 2d St., Cincinnati, Ohio. (24). 1880. **C**
*SPRINGER, HON. FRANK, East Las Vegas, N. M. (57). 1914. **F**
*Springsteen, Harry William, Ph. D., Associate Professor of Physics, Western Reserve University, Cleveland, Ohio. (49). 1906. **A B**
Sprong, Severn D., E. E., 533 2d St., Brooklyn, N. Y. (60). **D**
Spunar, Valentine Max, M. E., E. E., 941 Hoyne Ave., Chicago, Ill. (60). **A**
Spurlock, Frank, Chattanooga, Tenn. (65).
Squibb, Charles F., Bernardsville, N. J. (43).
Squibb, Edward Hamilton, M. D., 148 Columbia Heights, Brooklyn, N. Y. (41). **F K**
*Squier, George Owen, Ph. D., Lieut.-Colonel Military Attache, U. S. A., American Embassy, London, England. (54). 1906. **B**
Squire, John A., P. O. Box 5, Palo Alto, Cal. (66).
Squire, Susan J., M. D., The Cypress Apartments, 2204 South Hoover St., Los Angeles, Cal. (63). **K**
Squires, J. H., Agricultural Division, E. I. du Pont de Nemours Powder Co., Wilmington, Del. (66). **M**
Staber, Maud J., 455 East 18th St., Brooklyn, N. Y. (63).

Stabler, Edward Lincoln, Ph. D., care U. S. Leather Company, 17 Battery Place, New York, N. Y. (60). **A**

Stabler, Laird J., 1122 West 30th St., Los Angeles, Cal. (60). **C**

Stack, Erwin Blakeney, E. E., Monroe, N. C. (63). **D**

Stackpole, Miss Caroline E., Teachers College, Columbia University, New York, N. Y. (53). **F G L**

*Stafford, Orin Fletcher, Professor of Chemistry, University of Oregon, Eugene, Ore. (58). 1911. **C**

Stager, Henry Walter, Ph. D., 265 Howard St., Fresno, Cal. (65). **A**

*Stahley, George Diehl, M. D., Gettysburg, Pa. (47). 1907. **F G**

*Stakman, Elvin C., University Farm, St. Paul, Minn. (65). 1915. **G**

Stalder, Walter, 1822 12th Ave., Oakland, Cal. (65).

Stallings, Robert Emmet, State Chemist, 130 State Capitol, Atlanta, Ga. (66). **C**

*Stamper, Alva Walker, Ph. D., Head, Department of Mathematics, State Normal School, Chico, Cal. (60). 1911. **A**

*Standley, Paul Carpenter, Assistant Curator, U. S. National Museum, Washington, D. C. (60). 1911. **G**

Stanley, L. L., M. D., San Quentin, Cal. (66). **K**

Stanley, William, E. E., Great Barrington, Mass. (50). **D**

Stantial, F. G., Everett, Mass. (61). **C**

STANTON, FRANK MCMILLAN, E. M., Shore Road, Whitestone, N. Y. (51). **D E**

Stanton, John Robert, E. M., 15 William St., New York, N. Y. (49). **D**

Stanton, Robert Brewster, C. E., E. M., 32 Nassau St., New York, N. Y. (51). **D**

*Stanton, Timothy William, Ph. D., U. S. National Museum, Washington, D. C. (50). 1902. **E**

Stanton, Wilbor D., C. E., Cohocton, N. Y. (60). **D**

*Starbuck, Edwin Diller, Ph. D., Professor of Philosophy, State University of Iowa, Iowa City, Iowa. (58). 1911. **H I L**

*Starch, Daniel, Ph. D., Assistant Professor of Psychology, University of Wisconsin, Madison, Wis. (62). 1914. **H L**

Stark, W., M. D., Auburn, Cal. (65). **K**

Stark, William E., Superintendent of Schools, 328 Union St., Hackensack, N. J. (58). **L**

Starr, David S., Hastings Seed Co., Trimble, Ga. (65). **G M**

*Starr, Frederick, M. D., Ph. D., LL. D., Professor of Anthropology, University of Chicago, Chicago, Ill. (36). 1892. **E H**

Starring, C. C., Bozeman, Mont. (66).

*Stauffer, Clinton R., Ph. D., Department of Geology, University of Minnesota, Minneapolis, Minn. (57). 1911. **E**

Stauffer, Rev. Thomas F., 910 Congress St., Emporia, Kansas. (51). **I**

Stearns, Edward F., 4451 Oakenwald Ave., Chicago, Ill. (58).

Stearns, Guy Beckley, M. D., 119 West 82d St., New York, N. Y. (54). **I K**

Stearns, Thomas B., E. M., 1720 California St., Denver, Colo. (50). **D E**

Stebbins, Miss Fannie A., 480 Union St., Springfield, Mass. (44). **F G**

*Stebbins, James H., Jr., Ph. D., 80 Madison Ave., New York, N. Y. (60). 1911. **C**

*Stebbins, Joel, Ph. D., Professor of Astronomy, University of Illinois, Urbana, Ill. (58). 1909. **A**

*Stebinger, Eugene, U. S. Geological Survey, Washington, D. C. (63). 1914. **E**

Steckbeck, David Walter, Department of Botany, University of Pennsylvania, Philadelphia, Pa. (63). **G**

Stedman, Chester Jewett, M. D., Fort Canby, Washington. (65). **K**

Stedman, John Moore, Office of Experiment Stations, Washington, D. C. (58). **F M**

Steel, Prof. Alvin Arthur, Route 1, Parma, Idaho. (58). **D E**

Steel, Donald, 718 Bryant St., Palo Alto, Cal. (65).

Steel, Matthew, 449 West 150th St., New York, N. Y. (58). **K**

Steele, Asa George, Ph. D., LL. D., Temple University, Philadelphia, Pa. (63).

Steele, Brenton L., Associate Professor of Physics, State College of Washington, Pullman, Wash. (64). **B**

Steele, John M., M. D., Owings Mills, Md. (60). **K**

Steenken, F. L., Standish Arms, Brooklyn, N. Y. (63).

*Steensland, Halbert Severin, M. D., Professor of Pathology and Bacteriology, Syracuse Medical School, Syracuse, N. Y. (58). 1911. **F**

STEERS, JAMES R., 1 West 70th St., New York, N. Y. (57).

Steffens, Mathew Joseph, 55–57 East 22d St., Chicago, Ill. (58).

*Steidtmann, Edward, Department of Geology and Mineralogy, University of Wisconsin, Madison, Wis. (61). 1914. **E**

*Steiger, George, Chemical Laboratory, U. S. Geological Survey, Washington, D. C. (40). 1901. **B C E**

Stein, John Bethune, M. D., 205 East 23d St., New York, N. Y. (57). **K**

Stein, Mrs. Julian S., 22 Talbot Road, Windsor Hills, Baltimore, Md. (63). **F**

Stein, Simon Gerberich, M. D., Muscatine, Iowa. (43). **A K**

Steiner, Bernard Christian, Ph. D., Enoch Pratt Free Library, Baltimore, Md. (58). **I**

Steiner, Walter R., M. D., 4 Trinity St., Hartford, Conn. (62). **K**

*Steinmetz, Charles Proteus, E. E., Ph. D., Professor of Electrical Engineering, Union University, Schenectady, N. Y. (40). 1895. **B C D**

Steinway, Fred T., care Steinway and Sons, Ditmars Ave., Steinway, Long Island City, N. Y. (56).

Steirnagle, William Milton, C. E., U. S. Coast and Geodetic Survey, Washington, D. C. (66). **B D**

*Stejneger, Leonhard, Head Curator, of Biology, U. S. National Museum, Washington, D. C. (40). 1892. **E F**

Stellwagen, Herbert P., 2048 East Fair Ave., St. Louis, Mo. (58). **A**

Stellwagen, Thomas C., M. D., Professor of Physiology, Philadelphia Dental College, 110 South 19th St., Philadelphia, Pa. (51). **K**

Stengel, Alfred, M. D., Professor of Medicine, University of Pennsylvania, Philadelphia, Pa. (65). **K**

Stenger, Edward Lewis, 2610 Derby St., Berkeley, Cal. (64). **E**

Stephan, John Franklin, D. D., 1016 New England Building, Cleveland, Ohio. (64). **B C K**

Stephens, Henry Matthew, Professor of Biology, Dickinson College, Carlisle, Pa. (50). **F G**

*Stephens, Roswell Powell, Ph. D., Adjunct Professor of Mathematics, University of Georgia, Athens, Ga. (57). 1909. **A**

Stephens, Thomas Calderwood, Professor of Biology, Morningside College, Sioux City, Iowa. (57). **F K**

*STEPHENS, W. HUDSON, Lowville, N. Y. (18). 1874. **E H**

*Stephenson, Edward Beattie, Ph. D., Department of Physics, University of North Dakota, University, N. D. (58). 1915. **B**

*Stephenson, Lloyd William, Ph. D., U. S. Geological Survey, Washington, D. C. (56). 1911. **E**

Sterki, Victor, M. D., New Philadelphia, Ohio. (62). **F K**

Stern, Philip Kossuth, E. E., M. E., 521 West 187th St., New York, N. Y. (50). **B D**

*Sternberg, Charles Hazelius, Gilmour St., Ottawa, Canada. (50). 1914. **E F**

Sternberger, Edwin, M. D., 43 East 60th St., New York, N. Y. (57). **K**

*Sterrett, Douglas Bouvard, U. S. Geological Survey, Washington, D. C. (61). 1914. **E**

Stetson, Francis Lynde, LL. D., 4 East 74th St., New York, N. Y. (57). **E G I**

*Stetson, George Rochford, 1441 Massachusetts Ave., N. W., Washington, D. C. (49). 1911. **H I**

*Stetson, Harlan True, Yerkes Observatory, Williams Bay, Wis. (60). 1913. **A B**

Stevens, Cyrus Lee, M. D., Secretary, Medical Society of the State of Pennsylvania, Athens, Pa. (51). **K**

*Stevens, Frank Lincoln, Ph. D., Professor of Plant Pathology, University of Illinois, Urbana, Ill. (44). 1899. **G**

Stevens, Frederick W., Department of Physics, Lake Forest University, Lake Forest, Ill. (50). **B**

*Stevens, George Thomas, M. D., Ph. D., 350 West 88th St., New York, N. Y. (28). 1911. **B G K**

*Stevens, Harold E., Department of Plant Pathology, Agricultural Experiment Station, Gainesville, Fla. (63). 1915. **G**

*Stevens, Herman Campbell, Ph. D., Associate Professor of Education, University of Chicago, Chicago, Ill. (58). 1911. **H L**

*Stevens, James Franklin, M. D., P. O. Box 546, Lincoln, Nebr. (50). 1913. **F H K**

*Stevens, James Stacy, Ph. D., LL. D., Professor of Physics and Dean, College of Arts and Sciences, University of Maine, Orono, Me. (48). 1900. **B**

*Stevens, Neil Everett, Ph. D., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (63). 1913. **G**

*Stevens, Walter LeConte, Ph. D., Professor of Physics, Washington and Lee University, Lexington, Va. (29). 1882. **B L**

Stevens, William Chase, Professor of Botany, University of Kansas, Lawrence, Kans. (63). **G**

Stevenson, Francis Leslie, E. E., 606 South Michigan Ave., Chicago, Ill. (47). **B D I**

*Stevenson, John James, Ph. D., LL. D., 215 West 101st St., New York, N. Y. (36). 1888. **E**

*Stevenson, William H., Professor of Soils, Iowa State College, Ames, Iowa. (55). 1911. **C**

*Stewart, Alban, Professor of Botany, University of Wisconsin, Madison, Wis. (60). 1911. **G**

*Stewart, Alonzo Hamilton, M. D., 252 North 12th St., Philadelphia, Pa. (54). 1911. **K**

*Stewart, Colin Campbell, Ph. D., Professor of Physiology, Dartmouth College, Hanover, N. H. (54). 1906. **K**

*Stewart, Douglas, Assistant to Director, Carnegie Museum, Pittsburgh, Pa. (50). 1915. **E**

Stewart, Francis Laird, Murrysville, Pa. (51). **G**

*Stewart, Fred. Carlton, Professor of Botany, New York Agricultural Experiment Station, Geneva, N. Y. (44). 1901. **G**

*Stewart, George Walter, Ph. D., Professor of Physics, State University of Iowa, Iowa City, Iowa. (52). 1906. **B**

Stewart, Hugh Angus, M. D., Assistant Professor of Pathology, Columbia University, New York, N. Y. (62). **K**

Stewart, James L., M. D., Boise, Idaho. (60). **K**

Stewart, John, Associate Professor of Chemistry, Agricultural Experiment Station, Logan, Utah. (63). **C**

Stewart, John Pogue, Ph. D., Professor of Experimental Pomology, Pennsylvania State College, State College, Pa. (63). **G**

*Stewart, Louis B., Professor of Surveying and Geodesy, University of Toronto, Toronto, Canada. (57). 1909. **A**

Stewart, Maude Gertrude, 212 3d Ave., Faribault, Minn. (64). **B**

*Stewart, Oscar Milton, Ph. D., Professor of Physics, University of Missouri, Columbia, Mo. (46). 1900. **B**

Stewart, Robert, Ph. D., Associate Professor, Soil Fertility, University of Illinois, Urbana, Ill. (61). **G**

*Stewart, Robert Meldrum, Dominion Observatory, Ottawa, Canada. (61). 1910. **A**

*Stewart, Vern Bonham, Ph. D., New York State College of Agriculture, Ithaca, N. Y. (63). 1915. **G**

Stewart, William Rhinelander, 31 Nassau St., New York, N. Y. (57).

STICHT, ROBERT C., E. M., General Manager, Mt. Lyell Mining and Ry. Co., Ltd., Queenstown, Tasmania, Australia. (60). **D**

*Stickney, Gardner P., 864 Summit Ave., North, Milwaukee, Wis. (44). 1901. **H I**

*Stickney, Malcolm Enos, Assistant Professor of Botany, Denison University, Granville, Ohio. (53). 1915. **G**

Stickney, William B. C., 37 No. Main St., Rutland, Vt. (65).

Stidham, Harrison, C. E., 3322 Newark St., Washington, D. C. (60). **D**

*Stieglitz, Julius, Sc. D., Ph. D., Director, Laboratories of Analytical Chemistry, University of Chicago, Chicago, Ill. (39). 1895. **C**

*Stifler, William Warren, Ph. D., Columbia University, New York, N. Y. (63). 1915. **B**

*Stiles, Ch. Wardell, Ph. D., M. D., Sc. D., LL. D., U. S. Marine Hospital, Wilmington, N. C. (40). 1892. **F L**

Stiles, George Whitfield, M. D., Ph. D., 518 Tabor Opera House, Denver, Colo. (58). **K**

*Stiles, Harold M., Iowa State College, Ames, Iowa. (58). 1915. **B**

Stiles, L. C., M. D., Austinburg, Ohio. (60). **K**

Still, George Anderson, M. D., care A. S. O. Hospital, Kirksville, Mo. (50). **C K**

*Stillhamer, Arthur Grant, Professor of Physics, Illinois Wesleyan University, Bloomington, Ill. (50). 1915. **A B C D**

*Stillman, John Maxson, Ph. D., Professor of Chemistry, Leland Stanford Junior University, Stanford University, California. (41). 1911. **C**

*Stillman, Stanley, M. D., 2336 Broadway, San Francisco, Cal. (65). 1915. **K**

*Stillman, William Olin, M. D., 287 State St., Albany, N. Y. (28). 1911. **I K**

Stillwell, Albert G., 36 Gold St., New York, N. Y. (57). **C**

*Stillwell, Lewis Buckley, E. E., Sc. D., 100 Broadway, New York, N. Y. (50). 1906. **C D**

Stilman, Charles C., M. D., Morganville, Kansas. (60). **K**

Stimpson, Edwin Fiske, Assistant Professor of Physics and Electrical Engineering, University of Kansas, Lawrence, Kan. (60). **B D**

*Stine, Wilbur Morris, Sc. D., Ph. D., 334 West Main St., Mechanicsburg, Pa. (37). 1900. **B C D**

Stiriz, Charles H., 2577 8th Ave., New York, N. Y. (63).

Stober, James Palm, Ph. D., Professor of Biology and Geology, Albright College, Myerstown, Pa. (65). **E F**

Stock, Chester, 492 7th St., San Francisco, Cal. (65).

Stock, G. M., 3610 Clifton Ave., Walbrook, Baltimore, Md. (62). **C**

*Stockard, Charles Rupert, Ph. D., Professor of Anatomy, Cornell Medical College, New York, N. Y. (52). 1909. **F**

*Stockberger, Warner W., Ph. D., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (58). 1909. **G**

Stockbridge, Horace Edward, Ph. D., Editor, *Southern Ruralist*, Atlanta, Ga. (65). **M**

*Stocking, William Alonzo, Jr., Professor of Dairy Husbandry, New York State College of Agriculture, Ithaca, N. Y. (64). 1915. **G**

*Stockton, Charles G., M. D., 436 Franklin St., Buffalo, N. Y. (51). 1906. **K**

*Stockwell, John Nelson, Ph. D., 2302 Murray Hill Road, Cleveland, Ohio. (18). 1875. **A B C**

Stoddard, George Howland, M. E., 197 Beacon St., Boston, Mass. (51). **A B C D**

*Stoddart, Charles William, Ph. D., Assistant Professor of Soils, Pennsylvania State College, State College, Pa. (58). 1911. **C**

STOECKEL, CARL, Norfolk, Conn. (52). **A E**

Stoelting, C. William, M. D., 813 Main St., Oconto, Wis. (60). **K**

Stoffel, Paul X., E. M., Cia Minera de Penoles, S. A., 3a San Agustin, No. 80, Mexico, D. F., Mexico. (58). **D**

*Stokes, Henry Newlin, Ph. D., Bureau of Standards, Washington, D. C. (38). 1891. **C E**

Stokes, James Graham Phelps, M. D., Caritas Island, Stamford, Conn. (58). **I L**

Stokes, James Stephen, 1220 East Normal Ave., Kirksville, Mo. (58). **B E**

Stokes, John F. G., Curator of Polynesian Ethnology, Bishop Museum, Honolulu, Hawaii. (62). **H**

*Stokey, Alma Gracey, Ph. D., Associate Professor of Botany, Mt. Holyoke College, South Hadley, Mass. (63). 1915. **G**

*Stoltenberg, Miss Clara S., P. O. Box 25, Stanford University, Cal. (65). 1915.

Stolz, Rabbi Joseph, D. D., 4827 Langley Ave., Chicago, Ill. (58).

Stone, Charles Augustus, E. E., 147 Milk St., Boston, Mass. (60). **D**

*Stone, George Edward, Ph. D., Professor of Botany, Massachusetts Agricultural College, Amherst, Mass. (48). 1902. **G**

Stone, I. Frank, 100 William St., New York, N. Y. (57).

*Stone, Isabelle, Ph. D., 3403 Indiana Ave., Chicago, Ill. (50). 1906. **B**

*Stone, John Stone, E. E., 15 Gramercy Park, New York, N. Y. (54). 1906. **B**

Stone, Julius F., care The Seagrove Co., Columbus, Ohio. (48). **D**

Stone, Lincoln R., M. D., 131 Vernon St., Newton, Mass. (31). **H K**

Stone, Mabel Annie, Department of Botany, Wellesley College, Wellesley, Mass. (65). **G**

*Stone, Prof. Ormond, Manassas, Va. (24). 1876. **A L**

*Stone, Ralph Walter, U. S. Geological Survey, Washington, D. C. (57). 1911. **E**

*Stone, Roland Elisha, Ph. D., Ontario Agricultural College, Guelph, Ont., Canada. (58). 1911. **G**

*Stone, Witmer, Sc. D., Curator, Academy of Natural Sciences, Philadelphia, Pa. (63). 1913. **F**

Stoner, Dayton, State University of Iowa, Iowa City, Iowa. (64). **F**

*Stookey, Lyman Brumbaugh, Ph. D., Professor of Physiology and Physiological Chemistry, University of Southern California, Los Angeles, Cal. (53). 1906. **K**

*Stookey, Stephen Wharton, LL. D., 1719 D Ave., Cedar Rapids, Iowa. (63). 1915. **E**

Storer, Tracy I., Museum of Vertebrate Zoology, University of California, Berkeley, Cal. (65). **F**

*Storey, Thomas Andrew, M. D., Ph. D., Professor of Hygiene, College of the City of New York, New York, N. Y. (52). 1906. **K**

Storm, A. V., Professor of Agriculture, University Farm, St. Paul, Minn. (65). **G M**

Storrs, Frederick W., Canton, N. Y. (60). **C**

Storrs, Lucius Seymour, E. M., Vice-President, The Connecticut Co., New Haven, Conn. (51). **D E**

*Story, William Edward, Ph. D., Professor of Mathematics, Clark University, Worcester, Mass. (29). 1881. **A**

*Stose, George Willis, U. S. Geological Survey, Washington, D. C. (52). 1909. **E**

*Stotsenburg, James McPherson, M. D., P. O. Box 152, Ridley Park, Pa. (63). 1913. **K**

Stover, Clyde B., Department of Chemistry, Gettysburg College, Gettysburg, Pa. (58). **C**

*Stover, Wilmer Garfield, Department of Botany, Ohio State University, Columbus, Ohio. (63). 1915. **G**

Stow, Miss Nellie, 1200 California St., San Francisco, Cal. (65).

*Stradling, George F., Ph. D., 5120 Newhall St., Philadelphia, Pa. (41). 1900. **B L**

Strain, Earle, M. D., Great Falls, Mont. (60). **K**

Stramler, A. P., Pinos Altos, N. M. (56). **C**

Strasser, August Adrian, M. D., 115 Beech St., Arlington, N. J. (60). **K**

*Stratton, George Weatherworth, Department of Chemistry, University of Kansas, Lawrence, Kans. (60). 1915. **C**

Stratton, Harry Frost, The Electric Controller and Manufacturing Co., Cleveland, Ohio. (65).

Strauss, Frederick M., 1 William St., New York, N. Y. (57).

*Strayer, George Drayton, Ph. D., Teachers College, Columbia University, New York, N. Y. (61). 1910. **L**

*Streeter, George Linius, M. D., Professor of Embryology, Johns Hopkins Medical School, Baltimore, Md. (58). 1911. **K**

Streeter, Miss Stella G., 51 Summit Ave., Jersey City, N. J. (54). **G**

Strickland, E. H., Department of Agriculture, Ottawa, Canada. (65). **G M**

Strietmann, William H., M. D., Federal Realty Building, Oakland, Cal. (62). **K**

*Stromquist, Carl Eben, Ph. D., Professor of Mathematics, University of Wyoming, Laramie, Wyoming. (62). 1915. **A**

*Stromsten, Frank Albert, Sc. D., Assistant Professor of Animal Biology, State University of Iowa, Iowa City, Iowa. (52). 1913. **F**

Strong, Archibald McClure, C. E., Bishop, Cal. (60). **D**

*Strong, Edward K., Jr., Ph. D., Professor of Psychology, George Peabody College for Teachers, Nashville, Tenn. (65). 1914. **H L**

Strong, Edwin Atson, Department of Physics and Chemistry, State Normal School, Ypsilanti, Mich. (46). **B C**

Strong, Frederick Finch, M. D., 250 3rd Ave., North, St. Petersburg, Fla. (47). **B C K**

Strong, James Boorman, C. E., Lock Box 154, Hillburn, N. Y. (60). **D**

Strong, John S., Tulane University, New Orleans, La. (65).

*Strong, Oliver Smith, Ph. D., College of Physicians and Surgeons, 437 West 59th St., New York, N. Y. (52). 1903. **K**

*Strong, Reuben Myron, Ph. D., Professor of Anatomy, University of Mississippi, University, Miss. (51). 1906. **F**

*Strong, Richard Pearson, M. D., Chief, Department of Tropical Medicine, Harvard University Medical School, Boston, Mass. (55). 1911. **F**

*Strong, Wendell Melville, Ph. D., Glen Ridge, N. J. (44). 1899. **A B**

*Strong, William Walker, Ph. D., 500 South York St., Mechanicsburg, Pa. (54). 1909. **B C**

Stuart, Percy Ernest, M. D., Nashua, Iowa. (58). **H I K L**

*Stuart, William, 212 Carroll St., Takoma Park, D. C. (52). 1915. **G**

*Stubbs, William Carter, Ph. D., 701 Howard Ave., New Orleans, La. (40). 1901. **F**

*Stubenrauch, Arnold Valentine, Professor of Pomology, College of Agriculture, Berkeley, Cal. (64). 1915. **G**

*Studhalter, R. A., Missouri Botanical Garden, St. Louis, Mo. (64). 1915. **G**

*Stuhlmann, Otto, Jr., Ph. D., Randal Morgan Laboratory, University of Pennsylvania, Philadelphia, Pa. (62). 1915. **B**

Stump, Horace E., 179 Marcy Ave., Brooklyn, N. Y. (61). **C**

*Sturgis, William Codman, Ph. D., 18 Concord Ave., Cambridge, Mass. (40). 1892. **G**

Sturtevant, Edward, Department of Science, St. George's School, Newport, R. I. (57).

Sugg, J. F. H., 307–8 Howes Block, Clinton, Iowa. (58).

Sullivan, Alan, E. M., Toronto, Canada. (58). **D**

Sullivan, John Magruder, Ph. D., Professor of Chemistry, Millsaps College, Jackson, Miss. (56). **C E**

Sullivan, M., M. D., Adrian, Minn. (60). **K**

*Sullivan, Michael Xavier, Ph. D., Bureau of Soils, U. S. Department of Agriculture, Washington, D. C. (55). 1907. **C K L**

*Sullivan, Walter Edward, School of Medicine, Marquette University, Milwaukee, Wis. (64). 1915. **F**

Sulzer, Gustav A., M. D., 237 East State St., Columbus, Ohio. (60). **K**

Sulzner, Charles F., 630 14th St., Miami, Fla. (64). **C G K**

Summa, Hugo, M. D., 4253 Washington Boulevard, St. Louis, Mo. (53). **K**

Summerby, R., Macdonald College, Quebec, Canada. (66). **M**

*Summers, Henry Elijah, Professor of Zoology, Iowa State College, Ames, Iowa. (50). 1906. **F**

*Sumner, Francis Bertody, Ph. D., Scripps Institute for Biological Research, La Jolla, Cal. (51). 1906. **F**

Sumner, George S., Ph. D., Professor of Economics and Sociology, Pomona College, Claremont, Cal. (60). **I**

*Sumstine, David Ross, Sc. D., Principal, Turtle Creek School, Wilkinsburg, Pa. (58). 1911. **G**

Suppan, Leo, 2112 Oregon Ave., St. Louis, Mo. (60). **C**

*Surface, Frank Macy, Ph. D., Professor of Biology, Maine Agricultural Experiment Station, Orono, Me. (53). 1910. **F**

*Surface, Harvey Adam, Sc. D., Economic Zoologist of Pennsylvania, Harrisburg, Pa. (50). 1906. **F**

Sutherland, F. G., East Hall, University of California, Berkeley, Cal. (66).

Sutton, Frank, C. E., U. S. Geological Survey, Washington, D. C. (60). **D E**

Sutton, John Edward, M. D., Albion, N. Y. (60). **K**

*Suzzallo, Henry, Ph. D., Professor of the Philosophy of Education, Teachers College, Columbia University, New York, N. Y. (58). 1910. **H L**

Swafford, Charles C., 2000 Santa Clara Ave., Alameda, Cal. (65).

*Swain, George Fillmore, LL. D., Professor of Civil Engineering, Graduate School of Applied Science, Harvard University, Cambridge, Mass. (52). 1906. **D**

*Swain, Joseph, LL. D., President, Swarthmore College, Swarthmore, Pa. (54). 1910. **A**

*Swain, Robert Eckles, Ph. D., Professor of Physiological Chemistry, University of California, Berkeley, Cal. (60). 1911. **C**

Swan, Benjamin R., M. D., 222 Sansome St., San Francisco, Cal. (65). **K**

Swan, D. S., Box 338, R. F. D. 10, Los Angeles, Cal. (65).

*Swan, John Nesbit, Ph. D., Professor of Chemistry, Monmouth College, Monmouth, Ill. (58). 1911. **C L**

Swan, Stewart Duffield, Monmouth, Ill. (64).

Swanberg, Harold, 221 South Ashland Boulevard, Chicago, Ill. (65). **K**

*Swanton, John Reed, Ph. D., Bureau of American Ethnology, Smithsonian Institution, Washington, D. C. (58). 1910. **A**

Swarth, Harry S., Museum of History, Science and Art, Exposition Park, Los Angeles, Cal. (65).

*Swartz, Charles Kephart, Ph. D., Professor of Geology, Johns Hopkins University, Baltimore, Md. (62). 1914. **E**

*Swartzel, Karl Dale, Professor of Mathematics, Ohio State University, Columbus, Ohio. (48). 1906. **A D L**

Sweet, Henry N., E. M., 63 Mt. Vernon St., Boston, Mass. (58). **D**

Sweetser, Albert Raddin, Professor of Biology, University of Oregon, Eugene, Ore. (62). **F G**

*Swenk, Myron H., Associate Professor of Entomology, Agricultural Experiment Station, Lincoln, Nebr. (62). 1913. **F**

Swenson, Carl G., M. D., 440 Fullerton Parkway, Chicago, Ill. (58). **K**

*Swensson, Emil, C. E., 5511 Hays St., Pittsburgh, Pa. (51). 1906. **D**

*Swett, Otis Dow, 1325 H St., N. W., Washington, D. C. (60). 1911. **C**

*Swezey, Otto H., H. S. P. Experiment Station, Honolulu, Hawaii. (64). 1915. **F**

Swezy, Miss Olive, 2531 Ridge Road, Berkeley, Cal. (65).

*Swift, Edgar James, Ph. D., Washington University, St. Louis, Mo. (60). 1911. **H**

*Swift, Fletcher Harper, Ph. D., Professor of Education, University of Minnesota, Minneapolis, Minn. (58). 1910. **H L**

Swift, Homer F., M. D., Associate Professor of Medicine, College of Physicians and Surgeons, New York, N. Y. (64). **K**

Swift, Walter B., M. D., 110 Bay State Road, Boston, Mass. (66). **K**

*Swingle, Deane B., Professor of Botany, Montana Agricultural Experiment Station, Bozeman, Mont. (62). 1913. **G**

*Swingle, Walter T., U. S. Department of Agriculture, Washington, D. C. (40). 1892. **G**

Swisher, Charles Clinton, Ph. D., LL. D., Cosmos Club, Washington, D. C. (62).

Switzer, George H., E. E., Bath, N. Y. (60). **D**

Sykes, George Francis, Department of Zoology, Oregon State Agricultural College, Corvallis, Ore. (63). **F G**

Sykes, Godfrey G., Carnegie Desert Laboratory, Tucson, Ariz. (66). **G**

*Sylvester, Albert Hale, Forest Supervisor, U. S. F. S., Leavenworth, Wash. (57). 1911. **E M**

*Symons, Thomas Baddeley, State Entomologist, College Park, Md. (54). 1906. **F**

*Taber, G. Major, Secretary, Geological Section, Southern California Academy of Sciences, Los Angeles, Cal. (51). 1915. **E**

*Taff, Joseph Alexander, 628 Cowper St., Palo Alto, Cal. (54). 1906. **E**

TAFT, ELIHU BARBER, Burlington, Vt. (36). **H**

Taft, Lorado, 6016 Ellis Ave., Chicago, Ill. (58).

Taggart, Rush, LL. D., 319 West 75th St., New York, N. Y. (49).

*Taggart, Walter Thomas, Ph. D., Professor of Organic Chemistry, University of Pennsylvania, Philadelphia, Pa. (65). 1915. **C**

Tagore, Rathindra Nath, 6 D. N. Tagore Lane, Jorasanko, Calcutta, India. (65). **G**

*Tainter, Charles Sumner, 3609 6th St., San Diego, Cal. (29). 1881. **A B D**

Tainter, Francis Stone, C. E., Far Hills, N. J. (51). **D**

*Takamine, Jokichi, 550 West 173d St., New York, N. Y. (57). 1908. **C**

Talbert, George A., Professor of Biology, Ripon College, Ripon, Wis. (62). **F**

*Talbot, Arthur Newell, C. E., Sc. D., Professor of Municipal and Sanitary Engineering, University of Illinois, Urbana, Ill. (51). 1906. **D**

*Talbot, Henry Paul, Ph. D., Professor of Inorganic and Analytical Chemistry, Massachusetts Institute of Technology, Boston, Mass. (44). 1896. **C L**

Talbot, Mrs. Laura Osborne, 1449 Fairmont St., N. W., Washington, D. C. (36). **F G I**

*Talbot, Marion, LL. D., Professor of Household Administration and Dean of Women, University of Chicago, Chicago, Ill. (54). 1910. **C L**

*Talbot, Mignon, Ph. D., Professor of Geology, Mount Holyoke College, South Hadley, Mass. (51). 1906. **E**

Talbot, Winthrop, M. D., Director, Department of Health and Economics, National Electric Lamp Association, Cleveland, Ohio. (62). **H**

Taliaferro, W. T. L., Professor of Agronomy, Maryland Agricultural College, College Park, Md. (66). **M**

*TALMAGE, JAMES EDWARD, Ph. D., Professor of Geology, University of Utah, Salt Lake City, Utah. (50). 1906. **E**

Talman, Charles Fitzhugh, U. S. Weather Bureau, Washington, D. C. (62). **B E**

Taltavall, William Allan, M. D., 126 Cajon St., Redlands, Cal. (57). **K**

Tannehill, Helen Train, R. F. D. 4, Zanesville, Ohio. (65). **M**

Tanner, Amy Eliza, Ph. D., Clark University, Worcester, Ohio. (65).

*TANNER, JOHN HENRY, Ph. D., Professor of Mathematics, Cornell University, Ithaca, N. Y. (47). 1899. **A B**

Tannreuther, George Washington, University of Missouri, Columbia, Mo. (63). **F**

*Tanquary, Maurice Cole, Ph. D., Department of Entomology and Zoology, Kansas State Agricultural College, Manhattan, Kansas. (60). 1915. **F**

Tarr, Leonard Merrill, U. S. Weather Bureau, New Haven, Conn. (64). **A B**

*Tarr, William Arthur, 27 Allan Place, Columbia, Mo. (63). 1915. **E**

*Tartar, Herman Vance, Oregon Experiment Station, Corvallis; Ore. (63). 1915. **C**

Tasker, Capt. Arthur N., U. S. A., Fort Wood, N. Y. (57). **C F K**

*Tatlock, John, President, Westchester Avenue Bank, 141 Broadway, New York, N. Y. (50). 1902. **A**

*Tatnall, Robert Richardson, Ph. D., Syracuse University, Syracuse, N. Y. (58). 1909. **B**

*Taubenhaus, Jacob J., Ph. D., Assistant in Plant Pathology, Agricultural Experiment Station, Newark, Del. (62). 1913. **G**

Taussig, James, 928 Rialto Building, St. Louis, Mo. (50). **I**

*Tawney, Guy Allen, Ph. D., Professor of Philosophy, University of Cincinnati, Cincinnati, Ohio. (58). 1911. **H**

Taylor, Miss A. Robina, U. S. Department of Agriculture, Washington, D. C. (63). **G**

*Taylor, Albert Hoyt, Ph. D., Professor of Physics, University of North Dakota, Grand Forks, N. D. (56). 1909. **B**

*Taylor, Alonzo Englebert, M. D., Professor of Physiological Chemistry, University of Pennsylvania, Philadelphia, Pa. (63). 1915. **K**

Taylor, Arthur W., 24½ Briggs St., Salem, Mass. (61). **B C**

Taylor, Mrs. Augustus P., Madison St., Thomasville, Ga. (63). **G**

Taylor, C. Marshall, P. O. Box 217, Texarkana, Texas. (60). **C**

Taylor, Charles E., Ph. D., 320–22 Niagara St., Niagara Falls, N. Y. (54). **C**

*Taylor, Charles H., Head, Department of Geology, Unversity of Oklahoma, Norman, Okla. (63). 1914. **E**

*Taylor, Edson Homer, Ph. D., Department of Mathematics, Eastern Illinois State Normal School, Charleston, Ill. (53). 1906. **A L**

Taylor, Edward Ballinger, Third Vice-President, Pennsylvania Lines, 901 Union Station, Pittsburgh, Pa. (50). **D**

*Taylor, Edward Randolph, Penn Yan, N. Y. (39). 1904. **C**

*Taylor, Edward Wyllys, M. D., Department of Neuropathology, Harvard Medical School, Boston, Mass. (50). 1902. **K**

Taylor, Estes Park, Utah Fruit Growers Association, Salt Lake City, Utah. (57). **F**

*Taylor, Ewing, M. D., Riverdale on Hudson, New York, N. Y. (58). 1911. **I K L**

*Taylor, Frank Bursley, 2905 Fairfield Ave., Fort Wayne, Ind. (39). 1897. **A E**

*Taylor, Frederick Wellington, Professor of Agriculture, New Hampshire College, Durham, N. H. (60). 1911. **G M**

Taylor, George H., 235 So. Virginia St., Reno, Nev. (66).

Taylor, Guy B., Ph. D., 5599 Baum Boulevard, Pittsburgh, Pa. (65).

Taylor, Hawley Otis, Ph. D., Department of Physics, Cornell University, Ithaca, N. Y. (62). **B**

Taylor, Henry W., Chief Engineer, House of Representatives, 100 5th St. N. E., Washington, D. C. (52). **D**

Taylor, Howard F., C. E., 5000 East 8th St., Kansas City, Mo. (58). **D**

Taylor, J. Erskine, M. D., Rockland, Pa. (51). **K**

*Taylor, J. N., Bureau of Animal Industry, U. S. Department of Agriculture, Washington, D. C. (62). 1915. **C**

*Taylor, James Morford, LL. D., Professor of Mathematics, Colgate University, Hamilton, N. Y. (33). 1901. **A D**

Taylor, James Townsend, C. E., P. O. Box 799, Honolulu, Hawaii. (60). **D**

Taylor, John Bellamy, E. E., 23 Lowell Road, Schenectady, N. Y. (60). **A B D**

*Taylor, Joseph S., Ph. D., 2275 Loring Place, Bronx, New York, N. Y. (61). 1915. **L**

Taylor, Julius H., M. D., 1409 Plain St., Columbia, S. C. (60). **K**

Taylor, Lyndon Bigelow, M. E., 12 Redwood St., Newport, R. I. (65). **D I**

*Taylor, Norman, 426 Argyle Road, Flatbush, Brooklyn, N. Y. (63). 1915. **G**

Taylor, Robert Stewart, 2905 Fairfield Ave., Fort Wayne, Ind. (39). **I**

Taylor, Samuel Alfred, C. E., Dean, School of Mines, University of Pittsburgh, Pittsburgh, Pa. (58). **D**

Taylor, Samuel Newton, Ph. D., Professor of Physics, Goucher College, Baltimore, Md. (58). **B D**

*Taylor, Thomas Smith, Assistant Professor of Physics, Yale University, New Haven, Conn. (65). 1915. **B**

Taylor, Walter Penn, Museum of Vertebrate Zoology, University of California, Berkeley, Cal. (63). **F**

*Taylor, William Alton, Sc. D., U. S. Department of Agriculture, Washington, D. C. (52). 1911. **G M**

Teas, William H., Marion, Va. (58). **C**

Tedesche, Leon G., M. D., 3596 Wilson Ave., Station V, Cincinnati, Ohio. (63). **K**

Teel, Ambrose W., M. D., Kahoka, Mo. (60). **K**

*Teeple, John Edgar, Ph. D., Consulting Chemist, 50 East 41st St., New York, N. Y. (57). 1909. **C**

*Teeters, Wilber John, State University of Iowa, Iowa City, Iowa. (50). 1911. **C**

Teggart, Frederick John, Bancroft Library, Berkeley, Cal. (65).

Teller, Edgar E., 3321 Sycamore St., Milwaukee, Wis. (63).

*Tello, Julio César, M. D., Lima, Peru, S. A. (62). 1913. **K**

Temple, Charles E., Riverdale, Md. (65).

*Temple, James Clarence, Professor of Bacteriology, Georgia Experiment Station, Experiment, Ga. (61). 1911. **C G**

Templeton, E. C., 375 Everett Ave., Palo Alto, Cal. (65).

*Templin, Olin, Professor of Philosophy, University of Kansas, Lawrence, Kans. (58). 1915. **H**

Terman, Lewis M., Stanford University, Cal. (65).

*Terry, Benjamin Taylor, M. D., Pathological Laboratories, Kings County Hospital, Brooklyn, N. Y. (54). 1907. **F K**

Terry, Mrs. Emily Hitchcock, 103 South St., Northampton, Mass. (63). **G**

Terry, Howard L., Inspector, State High School, Madison, Wis. (61).

*Terry, Robert James, M. D., Professor of Anatomy, Washington University, St. Louis, Mo. (53). 1906. **K**

Test, Louis Agassiz, Ph. D., Iowa State College, Ames, Iowa. (58). **C F**

Teufert, J. F., D. D. S., 323 1st St., Yuma, Arizona. (65). **K**

Thacher, Cornelius S., Barringer High School, Newark, N. J. (60). **A**

*Thacher, John Seymour, M. D., 20 West 50th St., New York, N. Y. (57). 1908. **K**

Thacher, Olive Day, Nordhoff, Cal. (66).

Thacher, Sherman D., Nordhoff, Cal. (66).

Thatcher, Roscoe Wilfred, Chief, Division of Agricultural Chemistry and Soils, Department of Agriculture, University Farm, St. Paul, Minn. (58). **C**

*THAW, BENJAMIN, Moorewood Place, Pittsburgh, Pa. (50). 1913. **A D**

*THAW, STEPHEN D., Allegheny Observatory, Pittsburgh, N. S., Pa. (60). 1913. **A**

*Thaxter, Roland, Ph. D., Professor of Cryptogamic Botany, Harvard University, Cambridge, Mass. (50). 1901. G

THAYER, JOHN ELIOT, Lancaster, Mass. (62). G

*Thayer, William Sydney, M. D., LL. D., Professor of Clinical Medicine, Johns Hopkins University, Baltimore, Md. (52). 1903. K

Thelberg, Elizabeth Burr, M. D., Resident Physician and Professor of Physiology and Hygiene, Vassar College, Poughkeepsie, N. Y. (50). HIKL

Thiele, Mrs. Erich A., 129 West North St., Canton, Ohio. (63). I

Thiele, F. C., 1247 Cooper St., Palo Alto, Cal. (65).

*Thiessen, Reinhardt, Ph. D., U. S. Bureau of Mines, Pittsburgh, Pa. (60). 1915. EG

*Thom, Charles, Ph. D., Bureau of Animal Industry, U. S. Department of Agriculture, Washington, D. C. (50). 1901. G

*Thomas, Abram Owen, West Side, Iowa City, Iowa. (64). 1915. E

Thomas, Arthur H., West Washington Square, Philadelphia, Pa. (58).

Thomas, Calvin, LL. D., Professor of Germanic Languages and Literatures, Columbia University, New York, N. Y. (60). L

*Thomas, Carl Clapp, M. E., Professor of Mechanical Engineering, Johns Hopkins University, Baltimore, Md. (64). 1915. D

*Thomas, Evan, Professor of Mathematics, University of Vermont, Burlington, Vt. (60). 1915. A

*Thomas, Henry M., M. D., 1228 Madison Ave., Baltimore, Md. (60). 1911. K

Thomas, J. Bosley, 920 North Carrollton Ave., Baltimore, Md. (60). C

Thomas, J. Hanson, 1010 St. Paul St., Baltimore, Md. (60).

Thomas, John Jenks, M. D., 88 Bay State Road, Boston, Mass. (63). K

Thomas, Paul K. M., 39 Willow Drive, New Rochelle, N. Y. (57). HIL

Thomas, Major Robert Gibbes, Professor of Mathematics and Engineering, The Citadel, Charleston, S. C. (58). AD

Thomas, William Sturgis, M. D., 240 West 71st St., New York, N. Y. (60). K

Thompson, Miss Anna Ford, P. O. Box 32, Summit, N. J. (49). G

*Thompson, Caroline Burling, Ph D., Associate Professor of Zoology, Wellesley College, Wellesley, Mass. (58). 1913. F

Thompson, Crystal, Museum of Zoology, University of Michigan, Ann Arbor, Mich. (63). F

*Thompson, Frank E., 12th St. and 8th Ave., Boulder, Colo. (61). 1915. L

*Thompson, Gustave Whyte, 129 York St., Brooklyn, N. Y. (58). 1911. CDGI

*THOMPSON, HENRY DALLAS, Sc. D., Ph. D., Professor of Mathematics, Princeton University, Princeton, N. J. (57). 1909. A

Thompson, Hugh L., M. E., Waterbury, Conn. (51). DI

Thompson, James, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (61). G

Thompson, James E., Mayville, Wis. (48).

Thompson, John, Pearson's Magazine, 425 East 24th St., New York, N. Y. (58).

*Thompson, Joseph Osgood, Ph. D., Associate Professor of Physics, Amherst College, Amherst, Mass. (41). 1893. **B**

Thompson, Leland R., 4208 Magoun Ave., East Chicago, Ind. (63).

*Thompson, Ralph Leroy, M. D., Director, Department of Pathology and Bacteriology, St. Louis University, St. Louis, Mo. (57). 1911. **K**

Thompson, Robert Neal, Professor of Physics, University of Montana, Missoula, Mont. (63). **B**

Thompson, W. F., Stanford University, Cal. (65).

Thompson, Rev. Walter, D. D., Garrison, N. Y. (49).

Thompson, Walter N., M. D., Sullivan, Ind. (58). **C K**

Thompson, Walter Palmer, Professor of Biology, University of Saskatchewan, Saskatoon, Canada. (64). **F**

Thompson, William Baker, 1621 S St., N. W., Washington, D. C. (63).

*Thompson, William Gilman, M. D., 61 West 49th St., New York, N. Y. (50). 1902. **K**

*Thomson, Albert, American Museum of Natural History, New York, N. Y. (64). 1915. **E**

*Thomson, Elihu, Sc. D., Ph. D., E. E., 22 Monument Ave., Swampscott, Mass. (37). 1898. **B C D**

Thomson, Henry Nellis, E. M., Smelter Department, United Verde Co., Clarkdale, Ariz. (58). **B C D**

*Thomson, Robert Boyd, Botanical Department, University of Toronto, Toronto, Canada. (57). 1911. **G**

*Thornber, John James, Professor of Botany, University of Arizona, Tucson, Ariz. (50). 1905. **G**

*Thornburg, Charles Lewis, Ph. D., Professor of Mathematics and Astronomy, Lehigh University, South Bethlehem, Pa. (44). 1897. **A D L**

*Thorndike, Edward Lee, Ph. D., Professor of Educational Psychology, Columbia University, New York, N. Y. (49). 1901. **H L**

*Thorndike, Townsend William, M. D., 20 Newbury St., Boston, Mass. (58). 1913. **H K**

Thorne, Charles E., Director, Ohio Agricultural Experiment Station, Wooster, Ohio. (66). **M**

Thorne, Samuel, Jr., 19 Cedar St., New York, N. Y. (65).

*Thorp, Frank Hall, Ph. D., 200 Mt. Vernon St., West Roxbury, Mass. (57). 1911. **C E**

*Thorvaldson, Thorbergur, University of Saskatchewan, Saskatoon, Can. (58). 1915. **C**

*Thruston, R. C. Ballard, 1000–1004 Columbia Bldg., Louisville, Ky. (36). 1896. **E**

Thurber, Charles Herbert, Ph. D., 29 Beacon St., Boston, Mass. (52). **I**

Thurber, Samuel Wood, M. D., 104 East 39th St., New York, N. Y. (57). **K**

Thurston, Azor, Grand Rapids, Ohio. (58). **C**

Thwing, Charles Franklin, D. D., LL. D., President, Western Reserve University, Cleveland, Ohio. (63). **B**

Tibbals, George Attwater, C. E., 148 Milton St., Brooklyn, N. Y. (51). **D**

Tibbetts, James I., M. D., Wayzata, Minn. (60). **K**

Tibbetts, Sydney A., 1613 Josephine St., Berkeley, Cal. (60). **C**

Tickell, Alfred H., M. D., Nevada City, Cal. (60). **K**

Tiffany, Harold Edward, Assistant Professor of Chemistry, Delaware College, Newark, Del. (58). **B C K**

Tiffany, Louis Comfort, 401 Fifth Ave., New York, N. Y. (50).

*Tilden, Charles Joseph, C. E., Professor of Civil Engineering, Johns Hopkins University, Baltimore, Md. (60). 1915. **D**

Tillery, Robert G., Colonial Sugars Co., Gramercy, La. (64).

*Tillman, Col. Samuel Escue, U. S. A., Marven Place, Princeton, N. J. (54). 1906. **B C E**

Tilney, Frederick, M. D., 161 Henry St., Brooklyn, N. Y. (60). **K**

Tilson, Prof. P. S., Houston Laboratories, Houston, Texas. (50). **C**

*Tilton, John Littlefield, Professor of Geology and Physics, Simpson College, Indianola, Iowa. (50). 1906. **B E**

*Timberlake, P. H., 416 Vermont Building, Salt Lake City, Utah. (63). 1915. **F**

Timolat, J. G., Red Bank, N. J. (57).

Tinker, Martin Buell, M. D., Assistant Professor of Surgery, Cornell University Medical School, Ithaca, N. Y. (61). **K**

Tinsley, John D., Pineland, Texas. (66). **M**

Tisdale, Wendell H., Department of Plant Pathology, University of Wisconsin, Madison, Wis. (66). **G**

*Titchener, Edward Bradford, Sc. D., Ph. D., LL. D., Sage Professor of Psychology, Cornell University, Ithaca, N. Y. (51). 1902. **H**

Titsworth, Alfred Alexander, C. E., Sc. D., Dean of Mechanical Arts, Rutgers College, New Brunswick, N. J. (58). **A B D**

*Tittmann, Otto Hilgard, Sc. D., LL. D., President National Geographic Society, Washington, D. C. (24). 1888. **A**

Titus, E., Jr., 10 East 70th St., New York, N. Y. (50).

*Titus, Edward Gaige, Sc. D., Professor of Zoology and Entomology, Agricultural College of Utah, Logan, Utah. (50). 1906. **F**

Tobey, Wilmot Maxwell, Geodetic Survey of Canada, Ottawa, Canada. (62). **A**

*Toch, Maximilian, 329 West 86th St., New York, N. Y. (57). 1909. **C**

Todd, Albert May, Kalamazoo, Mich. (37). **C**

Todd, C. C., Associate Professor of Chemistry, State College of Washington, Pullman, Wash. (65). **C**

*Todd, David, Ph. D., Professor of Astronomy and Navigation, and Director of Observatory, Amherst College, Amherst, Mass. (27). 1881. **A B D K**

Todd, James, C. E., President, Sterling Varnish Co., Pittsburgh, Pa. (61). **C**

Todd, James Campbell, M. D., Professor of Pathology, University of Colorado, Boulder, Colo. (64). **F K**

*Todd, James Edward, Assistant Professor of Geology and Mineralogy, University of Kansas, Lawrence, Kans. (22). 1886. **E**

*Todd, Joe H., M. D., Christmas Knoll, Wooster, Ohio. (48). 1913. **H K**

Todd, Thomas Wingate, Professor of Anatomy, Western Reserve Medical College, Cleveland, Ohio. (64). **F H K**

Todd, William J., M. D., Mt. Washington, Baltimore, Md. (51). **K L**

*Toll, Charles Hansen, Ph. D., Professor of Philosophy, Amherst College, Amherst, Mass. (63). 1915. **H**

*Tolman, Lucius Moody, Transportation Building, Chicago, Ill. (58). 1911. **C**

*Tolman, Richard Chase, University of California, Berkeley, Cal. (63). 1915. **C**

Tomkins, Calvin, C. E., 17 Battery Place, New York, N. Y. (60). **D**

Tomlinson, L. C., E. E., 158 Atlantic St., Atlantic, Mass. (60). **D**

Tompkins, Perry T., 2526 Durant Ave., Berkeley, Cal. (58). **A B C D L**

Tonnele, Theodore, Metallurgical Engineer, 258 West 70th St., New York, N. Y. (50). **E**

Toomey, Noxon, 11 Aberdeen Place, Hillcrest, St. Louis, Mo. (64). **F K**

Toops, George Noble, C. E., Salina, Okla. (62). **D**

Torelle, Ellen, Department of State, Madison, Wis. (64).

Torney, George Henry, Jr., M. D., Bournewood Hospital, Brookline, Mass. (60). **K**

*Torrey, Harry Beal, Ph. D., Reed College, Portland, Oregon. (52). 1905. **F K**

*Tothill, John Douglas, Department of Entomology, Cornell University, Ithaca, N. Y. (65). 1915. **F**

Totman, David M., M. D., 303 Montgomery St., Syracuse, N. Y. (50). **K**

*Tottingham, William Edward, Assistant Professor of Agricultural Chemistry, College of Agriculture, University of Wisconsin, Madison, Wis. (58). 1915. **C**

*Toumey, James William, Director, Yale School of Forestry, New Haven, Conn. (58). 1911. **F M**

Toussaint, Camille August, 3688 Boulevard, Jersey City, N. J. (58). **A**

*Tower, Olin Freeman, Ph. D., Professor of Chemistry, Adelbert College, Cleveland, Ohio. (50). 1904. **C**

*Tower, Ralph Winfred, Ph. D., Curator of Physiology, American Museum of Natural History, New York, N. Y. (52). 1905. **K**

*Tower, William Lawrence, Associate Professor of Embryology, University of Chicago, Chicago, Ill. (55). 1909. **F**

Tower, Willis Eugene, 344 North Normal Parkway, Chicago, Ill. (60). **A**

Towl, Forrest M., C. E., 794 Carroll St., Brooklyn, N. Y. (60). **D**

*Towle, William Mason, Professor of Industrial Engineering, Clarkson School of Technology, Potsdam, N. Y. (44). 1902. **D**

*Townley, Sidney Dean, Sc. D., Associate Professor of Applied Mathematics, Stanford University, Cal. (53). 1906. **A**

*Townsend, Charles H. T., Ph. D., U. S. National Museum, Washington, D. C. (60). 1914. **F**

*Townsend, Charles Haskins, Director, New York Aquarium, Battery Park, New York, N. Y. (58) 1914. **F**

*Townsend, Charles Orrin, Ph. D., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (46). 1902. **G**

*Townsend, Edgar Jerome, Ph. D., Dean, College of Science, and Professor of Mathematics, University of Illinois, Urbana, Ill. (54). 1906. **A L**

Townsend, Harvey Gates, Ph. D., 307 Prospect Heights, Northampton, Mass. (65).

*Tozzer, Alfred Marston, Ph. D., Assistant Professor of Anthropology, Harvard University, Cambridge, Mass. (58). 1908. **H**

Trabert, Charles L., 2736 Elmwood Ave., Berkeley, Cal. (65).

Tracey, Joshua Irving, Department of Physics, Pennington Seminary, Upperco, Md. (57). **A B**

Tracy, Grover, Congress and Honore Sts., Chicago, Ill. (65).

*Tracy, Samuel Mills, Biloxi, Miss. (27). 1881. **G**

Tracy, William W., Sc. D., The Roanoke, Washington, D. C. (63). **G**

*Transeau, Edgar Nelson, Ph. D., Professor of Botany, State Normal School, Charleston, Ill. (53). 1909. **G**

*Traphagen, Frank Weiss, Ph. D., Professor of Metallurgy and Assaying, Colorado School of Mines, Golden, Colo. (35). 1889. **C E F**

Treadway, Lyman H., 8917 Euclid Ave., Cleveland, Ohio. (63).

*Treadwell, Aaron Louis, Ph. D., Professor of Zoology, Vassar College, Poughkeepsie, N. Y. (57). 1909. **F**

Treat, Erastus Buck, 942 St. Nicholas Ave., New York, N. Y. (29). **F I**

*TRELEASE, WILLIAM, Sc. D., LL. D., Head, Department of Botany, University of Illinois, Urbana, Ill. (39). 1891. **G**

Trettien, A. W., Fairbanks Hall, Springfield, Mo. (61).

Trew, Niel C., M. D., Box 789, R. F. D. 5, Los Angeles, Cal. (60). **K**

Trippett, J. Fenton, M. D., Amos, W. Va. (60). **K**

Trocon, Albert A., C. E., care Midland Bridge Co., Kansas City, Mo. (60). **D**

Troland, Leonard Thompson, 11 Beltran St., Malden, Mass. (63). **F**

Troop, James, Professor of Entomology, Purdue University, La Fayette, Ind. (60). **F**

*Trotter, Spencer, M. D., Professor of Biology and Geology, Swarthmore College, Swarthmore, Pa. (55). 1914. **E F H**

*Trowbridge, Arthur C., Department of Geology, State University of Iowa, Iowa City, Iowa. (58). 1915. **E**

*Trowbridge, Augustus, Ph. D., Professor of Physics, Princeton University, Princeton, N. J. (47). 1900. **B**

*Trowbridge, Charles Christopher, Sc. D., Assistant Professor of Physics, Columbia University, New York, N. Y. (50). 1901. **B**

Trowbridge, Mrs. Luther H., 304 West 99th St., New York, N. Y. (21). **G I**

Trowbridge, Perry F., Ph. D., Professor of Agricultural Chemistry, College of Agriculture, Columbia, Mo. (66). **C M**

*True, Alfred Charles, Sc. D., Ph. D., Director, Office of Experiment Stations, U. S. Department of Agriculture, Washington, D. C. (52). 1911. **L M**

*True, Gordon Haines, Professor of Animal Husbandry, University of California, Berkeley, Cal. (64). 1915. **M**

*True, Rodney Howard, Ph. D., U. S. Department of Agriculture, Washington, D. C. (46). 1899. **G**

*Truman, James, D. D. S., LL. D., Department of Dentistry, University of Pennsylvania, Philadelphia, Pa. (54). 1911. **K**

Trumbull, Alonzo George, 50 Church St., New York, N. Y. (64). **D**

Trumper, Frederick James, C. E., 1843 Rudwick Road, Cleveland, Ohio. (63). **D**

Trumper, Jessie Smith, M. D., P. O. Box 5, Cleveland, Ohio. (60). **K**

Tsou, Ying Hsuwen, Hull Botanical Laboratory, University of Chicago, Chicago, Ill. (63). **F G**

*Tubbs, Frank Dean, S. T. D., Professor of Astronomy and Geology, Bates College, Lewiston, Me. (60). 1915. **A E**

Tucker, Charles Edward, M. D., P. O. Box 45, Joppa, Ill. (58). **H**

Tucker, David Andrew, The Westmoreland, Mt. Auburn, Cincinnati, Ohio. (63). **F**

Tucker, Herman F., C. E., 1011 Alaska Building, Seattle, Wash. (60). **D**

Tucker, Colonel N. Beverley, Professor of Geology and Associate Professor of Chemistry, Virginia Military Institute, Lexington, Va. (55). **C E**

*Tucker, Richard Hawley, C. E., Lick Observatory, Mt. Hamilton, Cal. (50). 1902. **A D**

Tucker, William Albert, University Park, Denver, Colo. (51). **G H**

Tucker, William Conquest, C. E., 156 Fifth Ave., New York, N. Y. (51). **D**

*Tucker, Willis Gaylord, M. D., Ph. D., Professor of Chemistry and Toxicology, Albany Medical College, Albany, N. Y. (29). 1888. **C K**

*TUCKERMAN, ALFRED, Ph. D., University Club, New York, N. Y. (39). 1891. **D**

*Tuckerman, Frederick, M. D., Ph. D., Amherst, Mass. (58). 1909. **F**

*Tuckerman, Louis Bryant, Jr., Assistant Professor of Physics, University of Nebraska, Lincoln, Neb. (50). 1906. **B**

*Tufts, James Hayden, Ph. D., LL. D., Professor of Philosophy, University of Chicago, Chicago, Ill. (58). 1910. **L**

Tufts, Warren P., Department of Horticulture, Oregon State Agricultural College, Corvallis, Oreg. (66). **M**

Tugman, Orin, Ph. D., 465 Clay Ave., Rochester, N. Y. (62).

Tullock, Herbert S., C. E., Missouri Valley Bridge and Iron Co., Leavenworth, Kans. (62). **D**

Tuohy, John, corner G and Tulare Sts., Tulare, Cal. (50). **D I**

Turck, Fenton Benedict, M. D., 14 East 53d St., New York, N. Y. (51). **K**

Turman, A. Emmet, M. D., 17 West Grace St., Richmond, Va. (60). **K**

Turnbull, Thomas, Jr., M. D., 835 Western Ave., Pittsburgh, Pa. (50). **F K**

*Turneaure, Frederick Eugene, C. E., Professor of Engineering, University of Wisconsin, Madison, Wis. (51). 1906. **D**

*Turner, Arthur Bertram, Ph. D., College of the City of New York, New York, N. Y. (52). 1906. **A**

Turner, Eben T., P. O. Box 312, Ithaca, N. Y. (60). **B**

Turner, James Jesse, Professor of Biology, Hiram College, Hiram, Ohio. (64). **F**

Turner, John Pickett, College of the City of New York, New York, N. Y. (63).

Turner, William Franklin, Vienna, Va. (60). **F**

Turpin, George Melvin, Professor of Poultry Husbandry, Iowa State College, Ames, Iowa. (64). **M**

*Turrentine, John William, Ph. D., U. S. Department of Agriculture, Washington, D. C. (53). 1909. **C**

Turrill, G. E., M. D., 489 The Arcade, Cleveland, Ohio. (63). **K**

Tuteur, Edwin B., M. D., 31 North State St., Chicago, Ill. (60). **K**

*Tuttle, Albert Henry, Professor of Biology, University of Virginia, Charlottesville, Va. (17). 1874. **F**

*Tuttle, David Kitchell, Ph. D., U. S. Mint, Philadelphia, Pa. (58). 1911. **B C**

*Tuttle, Franklin Elliot, Ph. D., Professor of Chemistry, State University of Kentucky, Lexington, Ky. (58). 1911. **C**

Tweedy, Miss Alice B., 70 Morningside Drive, New York, N. Y. (49).

*Twenhofel, William Henry, Associate Professor of Geology and Paleontology, University of Kansas, Lawrence, Kans. (61). 1914. **E**

Twiggs, John W., 2102 California St., San Francisco, Cal. (65).

Twiss, Edith Minot, Ph. D., Assistant Professor of Botany, Washburn College, Topeka, Kans. (62). **G**

Twiss, George Ransom, Professor of Principles and Practice of Education, Ohio State University, Columbus, Ohio. (64). **B L**

Twiss, Wilfred Charles, Assistant Professor of Botany, University of Utah, Salt Lake City, Utah. (64). **G**

*Twitchell, Ernst, Wyoming, Ohio. (39). 1891. **C**

*Twitchell, Mayville William, Ph. D., New Jersey Geological Survey, Trenton, N. J. (63). 1913. **E**

*Twitmyer, Edwin Burket, Ph. D., Professor of Psychology, University of Pennsylvania, Philadelphia, Pa. (58). 1911. **H L**

*Tyler, Ansel Augustus, Ph. D., Professor of Biology, Bellevue College, Bellevue, Nebr. (50). 1906. **F G K**

Tyler, DeWitt C., M. D., Clifton, Kans. (60). **K**

*Tyler, Harry Walter, Ph. D., Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass. (47). 1906. **A L**

*Tyrrell, Joseph Burr, E. M., 14 Walmer Road, Toronto, Canada. (50). 1903. **D E**

Tyzzer, Ernest Edward, M. D., 41 Fairmont Ave., Wakefield, Mass. (64). **F K**

Udden, Anton David, Professor of Geology and Natural History, Augustana College, Rock Island, Ill. (63). **B E**

*Udden, Johan August, Ph. D., Bureau of Economic Geology, University of Texas, Austin, Texas. (54). 1906. **E**

Uehling, Fritz Frederick, Passaic, N. J. (63).

Uhlenhuth, Eduard, Ph. D., Rockefeller Institute for Medical Research, New York, N. Y. (65). **F K**

*Uhler, Horace Scudder, Ph. D., Assistant Professor of Physics, Yale University, New Haven, Conn. (63). 1913. **B**

Uhlig, Edward C., care Citizens Gas Works, 5th and Hoyt Sts., Brooklyn, N. Y. (58). **C**

*Ullmann, Harry Maas, Ph. D., Professor of Analytical and Industrial Chemistry, Lehigh University, South Bethlehem, Pa. (54). 1909. **C**

*Ulrey, Albert Brennus, Professor of Biology, University of Southern California, Los Angeles, Cal. (54). 1915. **F**

*Ulrich, Edward Oscar, Ph. D., 2421 1st St., N. W., Washington, D. C. (58). 1910. **E**

Ulrich, Henry L., M. D., 420 Syndicate Building, Minneapolis, Minn. (62). **K**

Ulrich, John Linck, Ph. D., Catholic University of America, Washington, D. C. (60). **F**

*Umpleby, Joseph Bertram, Ph. D., U. S. Geological Survey, Washington, D. C. (62). 1914. **E**

*Underhill, Anthony Lispenard, Ph. D., 1146 East 59th St., Chicago, Ill. (58). 1911. **A**

Underhill, Mary, 87 Hamilton Place, New York, N. Y. (60). **A**

*Underwood, Paul Halladay, Assistant Professor of Topographic and Geodetic Engineering, Cornell University, Ithaca, N. Y. (64). 1915. **D**

*Underwood, William Lyman, Lecturer on Biology, Massachusetts Institute of Technology, Boston, Mass. (51). 1906. **F K**

*Updegraff, Harlan, Ph. D., Professor of Educational Administration, University of Pennsylvania, Philadelphia, Pa. (61). 1915. **L**

*Updegraff, Milton, Professor of Mathematics, U. S. N., 1719 35th St., Washington, D. C. (40). 1895. **A**

*Upham, Warren, Sc. D., Secretary, Minnesota Historical Society, St. Paul, Minn. (25). 1880. **E**

*Upson, Walter Lyman, Assistant Professor of Electrical Engineering, Union University, Schenectady, N. Y. (62). 1915. **D**

*Urbahns, Theodore D., 950 Palm Terrace, Pasadena, Cal. (62). 1914. **F G**

*Urban, Frederick M., Ph. D., Professor of Psychology, University of Pennsylvania, Philadelphia, Pa. (58). 1911. **A H**

Usher, Prof. Susannah, 9 Kirkland Place, Cambridge, Mass. (58). **C**

*Vail, Miss Anna Murray, 19 rue Carnot, Montreuil Sur Mer, Pas de Calais, France. (50). 1906. **G**

Vail, Carey E., Assistant Professor of Chemistry, State Agricultural College, Fort Collins, Colo. (63). **C**

VAILE, JOEL FREDERICK, E. M., 420 Equitable Building, Denver, Colo. (50). **I**

Valentine, Morris Crawford, P. O. Box 15, Station B, Brooklyn, N. Y. (52). **F G L**

Valladares, Antenor, M. E., Apartado 987, Lima, Peru, S. A. (58). **C D**

Van Alstyne, Eleanor van Ness, Ph. D., 414 East 26th St., New York, N. Y. (64).

*Van Amringe, John Howard, Ph. D., LL. D., Professor of Mathematics, Columbia University, New York, N. Y. (50). 1901. **A**

Van Antwerp, Rev. Francis J., LL. D., 1280 Woodward Ave., Detroit, Mich. (46).

Van Arsdale, Miss May Belle, Department of Physical Science, Teachers College, New York, N. Y. (56). **B C**

Van Arsdale, William H., E. M., Hotel Windermere, Chicago, Ill. (58). **D**

VAN BEUREN, FREDERICK T., M. D., 51 West 52d St., New York, N. Y. (36). **K**

Van Buskirk, Edgar Flandreau, 180 McDonough St., Brooklyn, N. Y. (63). **F G**

Van Cleef, Eugene, State Normal School, Duluth, Minn. (63).

Van Cortlandt, R. B., 30 Pine St., New York, N. Y. (57).

Van den Burg, William H., M. D., 30 West 48th St., New York, N. Y. (57). **K**

Vanderbilt, Cornelius, M. E., 30 Pine St., New York, N. Y. (51). **D**

van der Heyden, A. F., 3 St. John's Terrace, Middlesbrough, England. (64).

Van der Laan, John, M. D., 200 South Terrace St., Muskegon, Mich. (51). **K**

Vanderlip, Frank Arthur, LL. D., "Beechwood," Scarboro, N. Y. (62).

Vander Naillen, Albert, C. E., 5204 Lawton Ave., Oakland, Cal. (65). **D**

*Vanderpoel, Frank, Ph. D., 175 Park Ave., Orange, N. J. (50). 1911. **B C F K**

*Vander Veer, Albert, M. D., Ph. D., LL. D., 28 Eagle St., Albany, N. Y. (60). 1911. **K**

Vander Veer, Edgar Albert, M. D., 28 Eagle St., Albany, N. Y. (60). **K**

*Van Dine, Delos Lewis, Bureau of Entomology, U. S. Department of Agriculture, Washington, D. C. (51). 1906. **F**

Van Duyn, John, M. D., 466 James St., Syracuse, N. Y. (50). **F K**

*Van Dyck, Francis Cuyler, Sc. D., Ph. D., Professor of Physics, Rutgers College, New Brunswick, N. J. (28). 1882. **B C D**

Van Dyck, William Van Bergen, E. E., care General Electric Co., Caixa do Correio 109, Rio de Janeiro, Brazil, S. A. (50). **B D**

*Van Dyke, Dr. Edwin C., Department of Entomology, University of California, Berkeley, Cal. (65). 1915. **F**

Van Es, Leunis, M. D., V. S., North Dakota Agricultural College, Agricultural College, N. D. (62). **F K**

*Van Hise, Charles Richard, Ph. D., LL. D., President, University of Wisconsin, Madison, Wis. (37). 1890. **E L**

*Van Hook, James M., Professor of Botany, University of Indiana, Bloomington, Ind. (56). 1908. **G**

Van Hook, Weller, M. D., 7124 Coles Avenue, Chicago, Ill. (60). **K**

*VAN HORN, FRANK ROBERTSON, Ph. D., Professor of Geology and Mineralogy, Case School of Applied Science, Cleveland, Ohio. (57). 1909. **E**

Van Isschot, Pierre E. Charles, E. M., Casilla 240, Guayaquil, Ecuador, S. A. (60). **D**

*Van Name, Willard G., Ph. D., New York State Museum, Albany, N. Y. (54). 1906. **F**

*Van Norman, Hubert Everett, Vice-Director and Dean, University Farm School, Davis, Cal. (64). 1915. **G M**

*Van Ornum, John Lane, Professor of Civil Engineering, Washington University, St. Louis, Mo. (50). 1904. **A D L**

*VAN ORSTRAND, CHARLES EDWIN, Geophysical Laboratory, Carnegie Institution, Washington, D. C. (58). 1911. **A B E**

*Van Slyke, Lucius Lincoln, Ph. D., Professor of Chemistry, New York Agricultural Experiment Station, Geneva, N. Y. (41). 1901. **C**

Van Trump, Isaac, 2337 South Paulina St., Chicago, Ill. (58). **B C D**

*Van Tuyl, Francis Maurice, Walker Museum, Chicago, Ill. (63). 1915. **E**

*Van Vleck, Edward Burr, Ph. D., LL. D., Professor of Mathematics, University of Wisconsin, Madison, Wis. (57). 1909. **A**

Van Wagenen, Bleecker, 443 4th Avenue, New York, N. Y. (62).

Van Wagenen, Marvin J., Department of Psychology, Ohio State University, Columbus, Ohio. (66). **H**

Van Winkle, Edgar Beach, C. E., 115 East 70th St., New York, N. Y. (49). **C**

Van Winkle, Walton, P. O. Box 654, Asheville, N. C. (63). **E**

Van Zwalenburg, Cornelius, M. D., Riverside, Cal. (60). **K**

Varney, William Wesley, M. E., 710 North Carey St., Baltimore, Md. (60). **D**

Varrelman, Ferdinand A., 1358B Spring St., Berkeley, Cal. (63). **F**

Vass, Alonzo F., Oregon State Agricultural College, Corvallis, Oregon. (65). **G**

Vaughan, C. Wheaton, 105 East 53d St., New York, N. Y. (65).

Vaughan, Harold S., M. D., 616 Madison Ave., New York, N. Y. (58). **K**

Vaughan, Richard E., Agricultural Experiment Station, Madison, Wis. (63). **G**

*Vaughan, T. Wayland, Ph. D., U. S. Geological Survey, Washington, D. C. (52). 1906. **E F G H I**

*Vaughan, Victor Clarence, M. D., Sc. D., Ph. D., LL. D., Dean, Department of Medicine and Surgery, University of Michigan, Ann Arbor, Mich. (58). 1910. **K**

*VAUX, GEORGE, JR., 1606 Morris Building, Philadelphia, Pa. (33). 1906. **A E**

Vavra, Joseph, care The Holly Sugar Co., Huntington Beach, Cal. (58). **C**

Vawter, Charles Erastus, Jr., Professor of Physics, Virginia Polytechnic Institute, Blacksburg, Va. (57). **B**

*Veatch, Arthur Clifford, 7 Richmond Terrace, Whitehill, S. W., London, England. (52). 1907. **E**

*Veazie, Henry Augustus, M. D., 1305 St. Mary St., New Orleans, La. (55). 1914. **K**

*Veblen, Oswald, Ph. D., Professor of Mathematics, Princeton University, Princeton, N. J. (58). 1909. **A C**

*VEDDER, CAPTAIN EDWARD B., Medical Corps, U. S. A., Army Medical School, Washington, D. C. (57). 1911. **K**

Veeder, Curtis Hussey, M. E., 17 Marshall St., Hartford, Conn. (50). **B D**

Veeder, Major Albert, M. D., Lock Box 1108, Lyons, N. Y. (60). **A K**

Veeder, Martha A., Lyons, N. Y. (65). **B**

Veillon, Dr. A. A., Louis Monsanto Chemical Works, 1800 South 2d St., St. Louis, Mo. (63). **C**

*Veitch, Fletcher Pearre, Chief, Leather and Paper Laboratory, U. S. Department of Agriculture, Washington, D. C. (62). 1914. **C**

Veldee, Milton V., U. S. Marine Hospital, Louisville, Ky. (65).

*Venable, Francis Preston, Ph. D., LL. D., President, University of North Carolina, Chapel Hill, N. C. (39). 1891. **C**

Venable, William Mayo, C. E., 812 Collins St., Pittsburgh, Pa. (50). **D**

*Verhoeff, Frederick Herman, M. D., 233 Charles St., Boston, Mass. (56). 1911. **K**

Verner, S. P., Columbia, S. C. (58). **H**

Ver Planck, William Gordon, 149 Broadway, New York, N. Y. (57).

*Verrill, Addison Emery, Professor of Zoology, Yale University, New Haven, Conn. (47). 1898. **F**

*Verwiebe, Walter August, Ohio State University, Columbus, Ohio. (65). 1915. **E**

*Very, Frank Washington, Director, Westwood Astrophysical Observatory, Westwood, Mass. (60). 1911. **A**

*Vestal, Arthur Gibson, Hull Botanical Laboratory, University of Chicago, Chicago, Ill. (63). 1915. **F G**

Vickery, Roy Albion, Brownsville, Texas. (58). **F**

*Viehoever, Arno, Ph. D., Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (65). 1915. **C**

*Viereck, Henry Lorenz, State Insectary, Sacramento, Cal. (58). 1913. **C E F G H I K L**

Vietor, Agnes C., M. D., Trinity Court, Boston, Mass. (57). **K**

Villard, Mrs. Henry, 540 Park Ave., New York, N. Y. (36).

*Villarello, Juan D., E. M., 5a Cipres No. 2728, Mexico, D. F., Mexico. (57). 1911. **E**

Vincent, Clarence C., Associate Professor of Horticulture, College of Agriculture, Moscow, Idaho. (66). **G M**

*Vincent, George Edgar, Ph. D., LL. D., President, University of Minnesota, Minneapolis, Minn. (58). 1910. **L**

*Vincent, Swale, M. D., Sc. D., Professor of Physiology, University of Manitoba, Winnipeg, Canada. (57). 1908. **K**

*Vinson, Albert Earl, Ph. D., Agricultural Experiment Station, Tucson, Ariz. (58). 1911. **C**

*Viol, Charles Herman, P. O. Box 22, Oakland Station, Pittsburgh, Pa. (58). 1914. **C**

*Visher, S. S., Professor of Geology, Walker Museum, University of Chicago, Chicago, Ill. (64). 1915. **E**

Visscher, L. G., M. D., 520 Homer Laughlin Building, Los Angeles, Cal. (58). **K**

Vitz, Prof. Martin, R. F. D. 29, Plymouth, Wis. (62). **K**

Vivian, Alfred, Professor of Agricultural Chemistry, Ohio State University, Columbus, Ohio. (62). **C**

*Voegtlin, Carl, M. D., Ph. D., Hygienic Laboratory, Washington, D. C. (60). 1911. **F K**

*Vogdes, Anthony Wayne, Brigadier-General, U. S. A., Retired, 2425 First St., San Diego, Cal. (32). 1885. **E F**

Voje, John Henry, M. D., Proprietor, Waldheim Park, Oconomowoc, Wis. (51). **K**

Volck, W. H., Agricultural Experiment Station, Watsonville, Cal. (65). **F**

Volkmann, George F., 2307 Broadway, San Francisco, Cal. (66).

vom Berge, Mrs. Genevieve S., 121 Chapin Parkway, Buffalo, N. Y. (63).

von Bayer, William Hector, 1626 Swann St., N. W., Washington, D. C. (62).

v. Bichowsky, F. Russell, Ventura, Cal. (65). **C**

*von Ende, Carl Leopold, Ph. D., Professor of Chemistry, University of Idaho, Moscow, Idaho. (58). 1911. **C L**

von Hermann, C. F., 83 West 5th St., Atlanta, Ga. (51). **B**

*von Hoffman, Charles, M. D., 2669 California St., San Francisco, Cal. (51). 1913. **H K**

*von Huene, F. Baron, Ph. D., Professor of Paleontology, University of Tübingen, Tübingen, Germany. (63). 1915. **E**

*von Ihering, Dr. Herman, Director, Museu Paulista, Caixa g, São Paulo, Brazil, S. A. (51). 1914. **F H**

*von Isakovics, Alois, care Synfleur Scientific Laboratories, Monticello, N. Y. (55). 1909. **C**

von Keller, Frederick P. P., M. D., 721 C St., N. W., Ardmore, Okla. (60). K

v. Körösy, K., M. D., VI Leudvaygasse 25, Budapest, Hungary. (65). K

von Mansfelde, Alexander S., M. D., "Quality Hill," Ashland, Nebr. (50). G K L

*von Schrenk, Hermann, Ph. D., 4139 McPherson Ave., St. Louis, Mo. (49). 1901. G

Voorhees, John Francis, Local Office, Weather Bureau, Knoxville, Tenn. (64). A B D

Voorhees, John H., New Jersey Experiment Station, New Brunswick, N. J. (65). G M

*Voorhees, Louis Augustus, 111 Carroll Place, New Brunswick, N. J. (57). 1911. C K

*Voorhees, Stockton S., U. S. Bureau of Standards, Washington, D. C. (57). 1914. D

Voorhees, Sheldon, M. D., Auburn, N. Y. (60). K

*Vorhies, Charles Taylor, Ph. D., Professor of Zoology, University of Utah, Salt Lake City, Utah. (60). 1915. F

Vosburgh, Charles H., 78 Bergen Ave., Jamaica, N. Y. (60). C

Vosburgh, William L., 79 Central Ave., Newtonville, Mass. (60). A

Voshell, Bertram Clark, 1229 Munsey Building, Baltimore, Md. (66).

*Votey, Josiah William, C. E., Sc. D., Professor of Civil Engineering, University of Vermont, Burlington, Vt. (50). 1915. D

*Vreeland, Frederick King, E. E., 31 Nassau St., New York, N. Y. (50). 1908. B D G

Vrooman, Carl, Assistant Secretary, U. S. Department of Agriculture, Washington, D. C. (66). F G M

Wackenhuth, Frederick Christopher, Jr., 57 Freeman St., Newark, N. J. (53). C

*Waddell, John, Sc. D., Ph. D., Assistant Professor of Chemistry, School of Mining, Kingston, Ontario, Canada. (57). 1909. C

*Waddell, John Alexander Low, Sc. D., LL. D., Orear-Leslie Building, Kansas City, Mo. (58). 1911. D L

Waddell, Miss Mary Evelyn Gertrude, St. Margaret's College, Toronto, Canada. (60). A

Wade, E. Marion, State Board of Health, Minneapolis, Minn. (63). K

Wade, Frank C., M. D., Lima, Ind. (58). K

Wade, Frank S., 6355 De Longpre Ave., Los Angeles, Cal. (60). C

Wade, Joe S., Bureau of Entomology, Department of Agriculture, Wellington, Kansas. (65). F

Wade, John W., M. D., 318 North Second St., Millville, N. J. (51). I

Wadleigh, Prof. Walter Hiram, 1725 Fairmount Ave., Wichita, Kans. (61). B

*Wadsworth, Augustus Baldwin, M. D., Laboratories, State Health Department, Albany, N. Y. (62). 1915. K

*WADSWORTH, FRANK LAWTON OLCOTT, E. M., Commonwealth Trust Building, Pittsburgh, Pa. (52). 1904. A B D

Wadsworth, Herbert, Avon, N. Y. (52). **D E**

*Wadsworth, M. Edward, Ph. D., Dean of School of Mines and Metallurgy, and Emeritus Professor of Mining Geology, Pennsylvania State College, State College, Pa., also Dean Emeritus of School of Mines and Professor of Mining Geology, University of Pittsburgh, Pittsburgh, Pa. (23). 1874. **E L**

Wadsworth, Richard G., M. D., 522 Commonwealth Ave., Boston, Mass. (60). **K**

Wadsworth, William S., M. D., 207 South 45th St., Philadelphia, Pa. (54). **K**

*Waggoner, Chauncey William, Ph. D., Professor of Physics, University of West Virginia, Morgantown, W. Va. (61). 1911. **B**

*Wagner, Frank Caspar, Professor of Steam Engineering, Rose Polytechnic Institute, Terre Haute, Ind. (34). 1897. **D**

*Wagner, George, Assistant Professor of Zoology, University of Wisconsin, Madison, Wis. (46). 1909. **F L**

*Wagner, Samuel, 410 South 15th St., Philadelphia, Pa. (51). 1906. **A**

Wagner, Samuel Tobias, C. E., School House Lane, Germantown, Philadelphia, Pa. (60). **D**

Wahl, Robert, Ph. D., 1135 Fullerton Ave., Chicago, Ill. (63).

*Wahlin, Gustaf Eric, 903 W. Railroad St., Urbana, Ill. (65). 1915. **A**

Wahrer, Charles Frederick, M. D., 1007 5th St., Fort Madison, Iowa. (53). **G K**

Waid, Ernest D., Massachusetts Agricultural College, Amherst, Mass. (66). **G**

*Waidner, Charles William, Ph. D., Bureau of Standards, Department of Commerce, Washington, D. C. (52). 1906. **B**

Wainwright, Jacob T., C. E., P. O. Box 774, Chicago, Ill. (51). **B D I**

Wainwright, John William, M. D., 80 Washington Square, East, New York, N. Y. (51). **K**

*Wait, Charles Edmund, Ph. D., Professor of Chemistry, University of Tennessee, Knoxville, Tenn. (51). 1906. **C**

*Wait, John Cassan, C. E., 233 Broadway, New York, N. Y. (58). 1915. **D**

Waite, Edward B., Head of Instruction Department, American School of Correspondence, Chicago, Ill. (58). **D L**

*Waite, Frederick Clayton, Ph. D., Professor of Histology and Embryology, Western Reserve University, Cleveland, Ohio. (50). 1906. **F K**

Waite, Herbert Harold, M. D., 2144 B St., Lincoln, Nebr. (63). **K**

*Waite, Merton Benway, U. S. Department of Agriculture, Washington, D. C. (37). 1893. **G**

Waite, Willis W., M. D., P. O. Box 63, El Paso, Texas. (60). **K**.

Wakefield, Homer, M. D., 406 North Main St., Bloomington, Ill. (54). **K**

*Wakeman, Alfred J., Ph. D., Woody Crest, West Haven, Conn. (55). 1908. **C**

*Walcott, Charles Doolittle, Sc. D., LL. D., Secretary, Smithsonian Institution, Washington, D. C. (25). 1882. **E F**

Walcott, Frederic C., Englewood, N. J. (60). **I**

Walcott, Gregory Dexter, Ph. D., Professor of Philosophy and Psychology, Hamline University, St. Paul, Minn. (61). **H L**

Waldbott, Sigmund, care Ohio Mechanic's Institute, Cincinnati, Ohio. (60). **C**

*Walden, Percy Talbot, Ph. D., 210 St. Ronan St., New Haven, Conn. (63). 1915. **C**

Waldenberger, Charles A., Ph. D., 63 East 90th St., New York, N. Y. (61). **C**

*Waldo, Clarence A., Ph. D., Professor of Mathematics, Washington University, St. Louis, Mo. (37). 1889. **A**

Waldo, Edward Hardenbergh, E. E., 802 West Illinois St., Urbana, Ill. (60). **D**

Waldo, Hon. George E., 320 South Madison Ave., Pasadena, Cal. (57). **I**

*Waldron, Clare Bailey, Professor of Horticulture, North Dakota Agricultural College, Agricultural College, N. D. (62). 1915. **G**

Waldron, Lawrence Root, Superintendent, Sub-Experiment Station, Dickinson, N. D. (61). **G**

Wales, Charles Marshall, M. E., 410 Riverside Drive, New York, N. Y. (51). **D**

Wales, Harold E., 3333 19th St., San Francisco, Cal. (65).

*Walker, Buz M., Ph. D., Professor of Mathematics, Mississippi A. and M. College, Agricultural College, Miss. (57). 1908. **A**

*Walker, Sir Edmund, LL. D., 99 St. George St., Toronto, Canada. (38). 1914. **E**

*Walker, Edmund Murton, M. D., Assistant Professor of Biology, University of Toronto, Toronto, Canada. (62). 1914. **F**

*Walker, Elda Rema, Ph. D., Assistant Professor of Botany, University of Nebraska, Lincoln, Nebr. (62). 1915. **G**

*Walker, Ernest, Alabama Polytechnic Institute, Auburn, Ala. (52). 1911. **G**

Walker, Leva B., Station A., Lincoln, Nebraska. (63).

Walker, Miles J., M. D., Yorkville, S. C. (60). **K**

*Walker, Percy Hargraves, U. S. Bureau of Standards, Washington, D. C. (55). 1908. **C**

*Walker, Perley F., M. E., Dean, School of Engineering, University of Kansas, Lawrence, Kans. (65). 1915. **D**

WALKER, R. M., 713 Grant Building, Atlanta, Ga. (52). **D**

Walker, Thomas Barlow, President, Board of Directors, Minneapolis City Library, Minneapolis, Minn. (51).

*Walker, William Hultz, Ph. D., Professor of Chemical Engineering, Massachusetts Institute of Technology, Boston, Mass. (53). 1907. **C**

*Wall, Judson G., 498 1st St., Brooklyn, N. Y. (63). 1913. **I**

Wall, William E., 1087 West 11th St., Cleveland, Ohio. (63).

*Wallace, Errett, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (60). 1913. **G**

*Wallace, George Barclay, M. D., Professor of Pharmacology, University and Bellevue Hospital Medical College, New York, N. Y. (58). 1910. **K**

Wallace, R. C. E., Purdue University, La Fayette, Ind. (66). **M**

*WALLER, ELWYN, Ph. D., 7 Franklin Place, Morristown, N. J. (23). 1874. **C**

Wallerstein, Max, Ph. D., 171 Madison Ave., New York, N. Y. (53). **C**

Wallgren, Andrew Bennett, M. D., 712 Wood St., Wilkinsburg, Pa. (63). **K**

*Wallin, J. E. Wallace, Ph. D., Psycho-Educational Clinic, 1520 South Grand Ave., St. Louis, Mo. (57). 1911. **H L**

Walmsley, Walter Newbold, E. E., São Paulo, Brazil, S. A. (60). **D**

Walsh, James Joseph, M. D., Ph. D., LL. D., Dean, Fordham Medical School, New York, N. Y. (51). **H K L**

Walsh, William E., M. D., Morris, Ill. (58). **K**

Walter, Miss Emma, 343 South 18th St., Philadelphia, Pa. (50). **E**

*Walter, Herbert Eugene, Ph. D., Assistant Professor of Biology, Brown University, Providence, R. I. (57). 1909. **F**

Walters, Francis M., Professor of Chemistry and Physiology, State Normal School, Warrensburg, Mo. (64). **C K**

WALTERS, FRANK, South Sandisfield, Mass. (56). **F G H**

*Walton, Lee Barker, Ph. D., Professor of Biology, Kenyon College, Gambier, Ohio. (53). 1908. **F**

Walton, Lyman A., 5737 Woodlawn Ave., Chicago, Ill. (58).

Walton, Richard C., care Ohio Agricultural Experiment Station, Wooster, Ohio. (66). **G**

Wang, Ching-Chun, Ph. D., Kuei Chiachang, Peking, North China. (65).

Wang, Y. Tsenshan, Hartley Hall, Columbia University, New York, N. Y. (63).

*Wanner, Atreus, Superintendent of Public Schools, 152 East Philadelphia St., York, Pa. (36). 1890. **E H**

Warbasse, James, 8–19 East Fulton St., Gloversville, N. Y. (54). **I**

Warbasse, James Peter, M. D., 386 Washington Ave., Brooklyn, N. Y. (60). **K**

Ward, Charles Howell, 801 Main St., West, Rochester, N. Y. (58). **H**

WARD, CHARLES WILLIS, Queens, Long Island, N. Y. (57).

Ward, Delancey Walton, Ph. D., 163 Madison Ave., Flushing, Long Island, N. Y. (51). **C**

Ward, Frank A., 84–102 College Ave., Rochester, N. Y. (40).

*Ward, Freeman, Ph. D., Department of Geology, University of South Dakota, Vermilion, S. D. (64). 1915. **E**

*Ward, Henry Baldwin, Ph. D., Professor of Zoology, University of Illinois, Urbana, Ill. (48). 1899. **F K**

*Ward, Henry Levi, Director, Milwaukee Public Museum, Milwaukee, Wis. (51). 1906. **E F H**

Ward, J. Langdon, 16 Exchange Place, New York, N. Y. (29). **I**

*Ward, Richard Halsted, M. D., 53 Fourth St., Troy, N. Y. (17). 1874. **G**

*Ward, Robert De Courcy, Professor of Climatology, Harvard University, Cambridge, Mass. (58). 1910. **E**

Ward, Willard Parker, E. M., Ph. D., 158 West 58th St., New York, N. Y. (50). **D E**

Warden, Carl C., M. D., Ann Arbor, Mich. (58). **H K**

*Wardle, Harriet Newell, Academy of Natural Sciences, Philadelphia, Pa. (47). 1911. **E H**

Wardwell, Mary Margaretta, 505 Ashland Ave., Buffalo, N. Y. (60). **A**

WARE, LEWIS SHARPE, 54 rue de la Bienfaisance, Paris, France. (62). **C G**

Ware, Miss Mary Lee, 41 Brimmer St., Boston, Mass. (47).

*Warfield, Frederic Parkman, 2 Rector St., New York, N. Y. (60).

Waring, C. A., 580 McAllister St., San Francisco, Cal. (65).

Waring, Tracy Dickey, E. E., Superintendent, Standard Underground Cable Co., Perth Amboy, N. J. (60). **D**

Waring, William George, Webb City, Mo. (58). **B C E**

*WARNER, JAMES D., 463 East 26th St., Flatbush, Brooklyn, N. Y. (18). 1874. **A B**

Warner, Joseph De Witt, U. S. Forest Service, Kalispell, Montana. (66). **M**

*Warner, Mrs. Murray, 2590 Green St., San Francisco, Cal. (62). 1913.

*Warner, Worcester Reed, Tarrytown, N. Y. (33). 1888. **A B D**

Warren, Edward Royal, 20 West Caramillo St., Colorado Springs, Colo. (57). **F**

*Warren, George Frederick, Ph. D., Professor of Farm Crops, Cornell University, Ithaca, N. Y. (52). 1911. **G M**

Warren, Homer S., M. D., 103 State St., Chicago, Ill. (58). **K**

*Warren, Howard Crosby, Professor of Psychology, Princeton University, Princeton, N. J. (46). 1901. **H**

*Warren, Joseph Weatherhead, M. D., Department of Health, Harrisburg, Pa. (31). 1886. **K**

*Warren, Mortimer, M. D., Pathological Laboratory, Roosevelt Hospital, New York, N. Y. (60). 1915. **K**

*Warren, William Homer, Ph. D., Professor of Chemistry, Wheaton College, Norton, Mass. (58). 1911. **C K**

Warren, William R., 68 William St., New York, N. Y. (49).

Warrington, George H., Citizens Bank Building, Cincinnati, Ohio. (63).

Warrington, James M., E. E., 617 South Grand Ave., Los Angeles, Cal. (34). **D**

Warth, Albin H., 46 Smith Terrace, Stapleton, L. I., N. Y. (58). **C**

Warthorst, Frank W., R. D. 2, Box 7, Bakersfield, Cal. (65).

Washburn, Hon. Charles Grenfill, 28 Union St., Worcester, Mass. (54).

*Washburn, Edward Wight, Ph. D., Professor of Physical Chemistry, University of Illinois, Urbana, Ill. (60). 1911. **C**

Washburn, Frank Sherman, C. E., American Cyanamid Co., 528 Ellicott Square, Buffalo, N. Y. (60). **D**

*Washburn, Frederic Leonard, State Entomologist and Professor of Entomology, University of Minnesota, Minneapolis, Minn. (51). 1906. **F**

Washburn, Hon. William Sherman, 33d and Rittenhouse Sts., Washington, D. C. (62).

*Washburne, Alva Courtenay, Assistant Actuary, Berkshire Life Insurance Co., Pittsfield, Mass. (54). 1907. **A**

*Washburne, Chester Wesley, care S. H. Ball, 71 Broadway, New York, N. Y. (62). 1915. **D E**

*Washington, Henry Stephens, Ph. D., Consulting Geologist and Chemist, 95 Liberty St., New York, N. Y. (44). 1897. **C E**

Wastenays, Hardolph, Rockefeller Institute for Medical Research, New York, N. Y. (63). 1914. **K**

*Waterman, Frank Allan, Ph. D., Professor of Physics, Smith College, Northampton, Mass. (54). 1906. **B**

Waterman, Frank N., M. E., 100 Broadway, New York, N. Y. (65). **D**

Waterman, Warren Gookin, Professor of Physics and Geology, Fisk University, Nashville, Tenn. (53). **B E L**

*Waters, Campbell E., Ph. D., Bureau of Standards, Washington, D. C. (52). 1906. **C**

Waters, Henry J., Secretary, Kansas State Agricultural College, Manhattan, Kans. (66). **M**

*Waters, Theodore, Bible House, New York, N. Y. (54). 1915. **I**

Watjen, Louis, 68 Broad St., New York, N. Y. (57).

*Watkins, Oscar S., Agricultural Experiment Station, Urbana, Ill. (58). 1911. **C G**

Watkins, Willard H., 622 Linwood Ave., Buffalo, N. Y. (58). **C**

Watson, Arthur Eugene, Ph. D., Assistant Professor of Physics, Brown University, Providence, R. I. (62). **B**

*Watson, Benjamin Marston, Plymouth, Mass. (50). 1911. **G**

Watson, Miss Caroline A., North Andover, Mass. (31). **D**

*Watson, Floyd Rowe, Ph. D., Assistant Professor of Physics, University of Illinois, Urbana, Ill. (58). 1909. **B L**

Watson, Frank Elbert, Hobart College, Geneva, N. Y. (51). **F**

Watson, John W., Virginia Polytechnic Institute, Blacksburg, Va. (64). **C**

*Watson, Joseph Ralph, Professor of Entomology, University of Florida, Gainesville, Fla. (50). 1915. **F**

*Watson, Lawrence Orr, South Carolina Agricultural Experiment Station, Clemson College, S. C. (63). 1915. **G**

*Watson, Thomas Augustus, East Braintree, Mass. (42). 1906. **E F L**

*Watson, Thomas Leonard, Ph. D., Director, Va. Geological Survey and Professor of Economic Geology, University of Virginia, Charlottesville, Va. (60). 1910. **E**

*WATSON, WILLIAM, Ph. D., Secretary, American Academy of Arts and Sciences, 107 Marlborough St., Boston, Mass. (12). 1884. **A**

Watters, Daniel M., E. M., 2557 11th Ave., West, Seattle, Wash. (60). **D**

Watts, Rowland, 3315 Powhatan Ave., "Mont Alto," Baltimore, Md. (58). **A B D E F G H**

Waugh, James Church, 5012 12th Ave., N. E., Seattle, Wash. (52).

Waugh, Karl Tinsley, Ph. D., 1106 Bushnell St., Beloit, Wis. (62). **H**

Way, Pennock M., 1906 Sansom St., Philadelphia, Pa. (66). **C F**

WAYLAND, CHARLES A., M. D., 140 North 3d St., San José, Cal. (58). **K**

*Wead, Charles Kasson, U. S. Patent Office, Washington, D. C. (47). 1898. **B**

Weaver, Charles E., University of Washington, Seattle, Washington. (66).

*Weaver, Edwin Oscar, Professor of Physics, Wittenberg College, Springfield, Ohio. (51). 1911. **B**

*Weaver, George Howitt, M. D., 629 South Wood St., Chicago, Ill. (58). 1911. **H K**

*Weaver, John Ernst, University of Minnesota, Minneapolis, Minn. (64). 1915. **G**

Weaver, Leon Howard Alexander, Menlo Park, Cal. (66). **A B C D I**

Weaver, W. I., Turlock, Cal. (65).

Webb, Gerald B., M. D., 1222 North Cascade Ave., Colorado Springs, Colo. (60). **K**

Webb, Harrison Emmett, 12 Irving Place, Summit, N. J. (60). **A**

Webb, Lewis Warrington, E. E., Master Electrician, Navy Yard, Norfolk, Va. (60). **D**

Webb, William Snyder, Professor of Chemistry, State University of Kentucky, Lexington, Ky. (66). **B C**

Webber, G. E., M. D., Morland, Kans. (60). **K**

*Webber, Herbert John, Ph. D., Director, Citrus Experiment Station, Riverside, Cal. (47). 1900. **G M**

Webber, Samuel Gilbert, M. D., 60 Gorham Ave., Brookline, Mass. (60). **K**

Weber, Dr. A. William, 2207 East 85th St., Cleveland, Ohio. (63).

Weber, Arthur L., 2514 Prairie Ave., Chicago, Ill. (58).

Weber, George Adam, C. E., M. E., 71 Courtland Ave., Stamford, Conn. (58). **D**

Weber, Raxley Ferrin, 561 West 58th St., New York, N. Y. (57). **C**

Webster, Mrs. A. G., 2 Walnut St., Boston, Mass. (60).

Webster, Albert Lowry, C. E., 80 Maiden Lane, New York, N. Y. (50). **C D**

*Webster, Arthur Gordon, Sc. D., Ph. D., LL. D., Professor of Physics, Clark University, Worcester, Mass. (47). 1898. **A B**

Webster, Clement Lyon, E. M., 111 Hawkins Ave., Charles City, Iowa. (58). **D E H**

Webster, David Locke, Ph. D., Jefferson Physical Laboratory, Cambridge, Mass. (60). **B**

Webster, Ed. H., 1026 Walker Ave., Oakland, Cal. (66). **M**

Webster, Edgar Huidekoper, Professor of Physical Science, Atlanta University, Atlanta, Ga. (50). **B C E**

Webster, Edgar M., M. D., 9139 Commercial Ave., Chicago, Ill. (60). **K**

Webster, Edwin Harrison, Kansas State Agricultural College, Manhattan, Kans. (62).

*Webster, Prof. Francis Marion, U. S. Department of Agriculture, Washington, D. C. (35). 1890. **F**

Webster, Frederic Smith, Newsboys' Home, Grant and Webster Aves., Pittsburgh, Pa. (51). **E F H**

*Webster, Hutton, Ph. D., Professor of Social Anthropology, University of Nebraska, Lincoln, Nebr. (62). 1913. **H**

*Webster, John Clarence, M. D., 920 Monroe Building, Chicago, Ill. (50). 1911. **K**

*Webster, Ralph Waldo, M. D., Ph. D., Assistant Professor of Therapeutics, Rush Medical College, Chicago, Ill. (57). 1911. **C K**

*Webster, Robert Lorenzo, Assistant Chief in Entomology, Iowa Agricultural Experiment Station, Ames, Iowa. (58). 1914. **F**

Weckel, Miss Ada Louise, 129 South Grove Ave., Oak Park, Ill. (58). **F G**

Wedderburn, J. H. McLagan, 150 Mercer St., Princeton, N. J. (63).

Wedel, Peter John, Professor of Science, Bethel College, Newton, Kans. (63).

Wedelstaedt, Dr. E. K., New York Life Building, St. Paul, Minn. (66).

Weed, Alfred Cleveland, North Rose, N. Y. (62). **F**

Weed, Benjamin, 2024 Durant Ave., Berkeley, Cal. (65).

*Weed, Clarence Moores, Sc. D., State Normal School, Lowell, Mass. (38). 1890. **F**

Weed, George Marston, 40 Central St., Boston, Mass. (54). **I**

Weed, Henry T., Head, Science Department, Manual Training High School, Brooklyn, N. Y. (54). **B C**

*Weed, Howard Evarts, Beaverton, Ore. (58). 1914. **F**

Weed, James Murray, E. E., 72 Northumberland Road, Pittsfield, Mass. (65). **D**

Weed, Lewis Hill, M. D., Anatomical Laboratory, Johns Hopkins Medical School, Baltimore, Md. (61). **K**

*Weed, Walter Harvey, E. M., 29 Broadway, New York, N. Y. (52). 1903. **E**

Weeks, Edwin Ruthven, E. E., 3408 Harrison St., Kansas City, Mo. (50). **A B L**

*Weeks, Fred Boughton, 5975 Keith Ave., Oakland, Cal. (58). 1910. **E**

Weeks, John Elmer, M. D., 46 East 57th St., New York, N. Y. (60). **K**

*Weeks, Rufus Wells, 346 Broadway, New York, N. Y. (54). 1906. **A I**

*Weems, Julius Buel, Ph. D., South Boston, Va. (44). 1900. **C**

Weems, Mason Locke, Professor of Botany and Physiology, Valparaiso University, Valparaiso, Ind. (52). **G K**

Weese, Asa Orrin, Associate Professor of Biology, University of New Mexico, Albuquerque, N. M. (64). **F**

Wegefarth, Paul, M. D., 322 Granger Building, San Diego, Cal. (65). **K**
Wehle, Theodore, 59 West 83d St., New York, N. Y. (57). **B C**
Weida, Frank Mark, Department of Mathematics and Science, St. Alban's School, Knoxville, Ill. (63). **A D**
*Weida, George Francis, Ph. D., Professor of Physics and Chemistry, Kenyon College, Gambier, Ohio. (60). 1911. **B C L**
*Weidman, Samuel, Ph. D., Wisconsin Geological and Natural History Survey, Madison, Wis. (53). 1906. **E**
Weightman, Charles H., 5859 Michigan Ave., Chicago, Ill. (60). **A**
*Weil, Richard, M. D., 970 Park Ave., New York, N. Y. (58). 1911. **C K**
Weimer, Edgar A., M. E., Superintendent, Weimer Machine Works Co., Lebanon, Pa. (51). **D**
Weinberg, Semen G., M. E., Kirpitchny 1, Petrograd, Russia. (60). **D**
Weinberger, William, M. D., 252 Willis Ave., New York, N. Y. (58). **K**
*Weingarten, Frederick Seymour, M. D., Ph. D., 28 West 91st St., New York, N. Y. (57). 1911. **K**
*Weinrich, Morris Francis, Ph. D., Department of Physics, Columbia University, New York, N. Y. (60). 1915. **A B**
Weinstock, Harris, 19 Presidio Terrace, San Francisco, Cal. (65).
*Weinzirl, John, Ph. D., Professor of Bacteriology, University of Washington, Seattle, Wash. (45). 1906. **G**
Weir, James Robert, Ph. D., Laboratory of Forest Pathology, Missoula, Mont. (65). **M**
Weir, John B., 224 West Monument St., Baltimore, Md. (62).
*Weir, Samuel, Ph. D., Dakota Wesleyan University, Mitchell, S. D. (60). 1915. **L**
*Weis, Joseph Deutsch, M. D., Professor of Tropical Medicine, Tulane University, New Orleans, La. (54). 1911. **K**
*Weiss, Albert Paul, Department of Psychology, Ohio State University, Columbus, Ohio. (63). 1914. **F H L**
*Weiss, John Morris, Barrett Manufacturing Co., Hudson Heights, N. J. (58). 1911. **C**
Weissmann, Frederick W., 2900 Vine St., Cincinnati, Ohio. (60). **K**
Weitling, William W., College Point, N. Y. (65).
Welch, Leander W., Department of Science, Polytechnic High School, Long Beach, Cal. (65).
*Welch, William Henry, M. D., LL. D., Professor of Pathology, Johns Hopkins University, Baltimore, Md. (47). 1900. **H K**
Weld, Fred. C., 65 Merrimack St., Lowell, Mass. (58). **C**
*Weld, Harry Porter, Assistant Professor of Psychology, Cornell University Ithaca, N. Y. (63). 1914. **H**
Weld, Ivan C., 1116 Connecticut Ave., Washington, D. C. (66). **M**
*Weld, Laenas Gifford, LL. D., Arcade Building, Pullman, Chicago, Ill. (41). 1895. **A**
*Weld, Lewis Hart, Evanston Academy, Evanston, Ill. (58). 1913. **F G**
*Welin, John Eric, Professor of Physics and Chemistry, Bethany College, Lindsborg, Kans. (50). 1911. **B C**

*Welker, William Henry, Ph. D., University of Illinois College of Medicine, Chicago, Ill. (55). 1911. C

*Weller, Stuart, Ph. D., Associate Professor of Paleontologic Geology, University of Chicago, Chicago, Ill. (54). 1906. E F

Welles, Francis R., 92 Avenue Henri Martin, Paris, France. (60). D

Wellington, Richard, University Farm, St. Paul, Minn. (65). G

*Wellisch, Edward M., Assistant Professor of Physics, Yale University, New Haven, Conn. (62). 1914. B

Wells, Frederick Latimer, M. E., 101 South Clinton St., Chicago, Ill. (58). D

*Wells, Frederic Lyman, Ph. D., McLean Hospital, Waverly, Mass. (54). 1911. H K

Wells, George R., Ph. D., Associate Professor of Psychology, Oberlin College, Oberlin, Ohio. (66). H

*Wells, H. Edward, Ph. D., Washington and Jefferson College, Washington, Pa. (54). 1911. C

*Wells, Harry Gideon, M. D., Ph. D., Professor of Pathology, University of Chicago, Chicago, Ill. (57). 1910. K

*Wells, Morris Miller, Department of Zoology, University of Chicago, Chicago, Ill. (63). 1915. F

Wells, Philip P., Meriden Road, Middletown, Conn. (66). M

Wells, Prof. William E., 225 Alvarado St., Redlands, Cal. (60). B E G

WELSH, FRANCIS RALSTON, 109 South 4th St., Philadelphia, Pa. (51).

Welsh, Lilian, M. D., Professor of Physiology and Hygiene, Goucher College, Baltimore, Md. (60). K

Welsh, Thomas Whitney Benson, Department of Chemistry, Cornell University, Ithaca, N. Y. (61). C

Wendling, George Reuben, LL. D., Charles Town, W. Va. (52). I

Weniger, Willibald, Ph. D., Nela Research Laboratory, Nela Park, Cleveland, Ohio. (62). B

*Wenner, Frank, Ph. D., Bureau of Standards, Washington, D. C. (54). 1911. B

Wenrich, Calvin N., Assistant Professor of Physics, University of Pittsburgh, Pittsburgh, Pa. (63). B

Wenrich, David Henry, 32 College House, Cambridge, Mass. (63).

*Wentworth, Edward Norris, Professor of Animal Breeding, Kansas State Agricultural College, Manhattan, Kans. (63). 1915. F

Wentworth, Irving Houghton, E. M., Apartado No. 16, Matehuala, S. L. P., Mex. (54). D

Wentworth, Walter V., Great Works, Me. (60). C

*Werber, Dr. Ernest I., Princeton University, Princeton, N. J. (63). 1915. F K

Werfield, W. H., 2625 Telegraph Ave., Oakland, Cal. (65).

Wesbrook, Donald McDermid, M. E., 319 North 23d Ave., West, Duluth, Minn. (64). D

*Wesbrook, Frank Fairchild, M. D., LL. D., President, University of British Columbia, Vancouver, B. C., Canada. (54). 1906. **K**

Wescott, William Burton, 9 Harcourt St., Boston, Mass. (66). **B D**

Wescott, William Carter, M. D., Pacific and Delaware Aves., Atlantic City, N. J. (58). **C K**

Wesener, John A., M. D., 31 North State St., Chicago, Ill. (58). **C**

*Wesson, David, care Southern Cotton Oil Co. of Great Britain, Ltd., Trafford Park, Manchester, England. (50). 1911. **C**

West, Paul Ashley, Medical Department, Johns Hopkins University, Baltimore, Md. (63). **C F**

West, Rodney Mott, 2141 Doswell Ave., St. Paul, Minn. (60). **C**

West, Thomas Dyson, The West Steel Casting Co., Cleveland, Ohio. (51). **D**

Westerman, P. B., Oakdale, Cal. (61).

Westervelt, William D., Honolulu, Hawaii. (66).

Westervelt, William Young, E. M., 17 Madison Square, East, New York, N. Y. (60). **D**

*Westfall, W. D. A., Ph. D., Assistant Professor of Mathematics, University of Missouri, Columbia, Mo. (60). 1911. **A**

Westgate, John Minton, Hawaii Agricultural Experiment Station, Honolulu, Hawaii. (63).

*Westgate, Lewis Gardner, Ph. D., Professor of Geology, Ohio Wesleyan University, Delaware, Ohio. (51). 1906. **E**

Westinghouse, Henry Herman, M. E., 165 Broadway, New York, N. Y. (51). **D**

Weston, David Brainard, Sharon, Mass. (57). **C D**

*Weston, Edward, Sc. D., LL. D., Waverley Park, Newark, N. J. (33). 1887. **B C D**

Weston, William Henry, Jr., Department of Biology, Western Reserve University, Cleveland, Ohio. (65). **G**

Westover, Harvey L., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (65). **G M**

Wetherill, Henry Emerson, M. D., P. O. Box 153, Drexel Hill, Pa. (53). **K**

*Wetzel, Reinhard A., College of the City of New York, New York, N. Y. (53). 1915. **A B**

*Weymouth, Frank Walter, Department of Physiology, Leland Stanford Junior University, Stanford University, Cal. (62). 1915. **H**

Weymouth, Thomas Rote, M. E., United Natural Gas Co., 206 Seneca St., Oil City, Pa. (63). **D**

*Weysse, Arthur Wisswald, M. D., Ph. D., Professor of Biology, Boston University, Boston, Mass. (52). 1905. **F K**

Whealdon, Albert D., Professor of Chemistry, State Normal School, Superior, Wis. (61). **C**

*Wheatland, Marcus Fitzherbert, M. D., LL. D., 84 John St., Newport, R. I. (51). 1913. **H K**

Wheelan, Fairfax Henry, University Club, San Francisco, Cal. (65).

*Wheeler, Alvin Sawyer, Ph. D., Associate Professor of Chemistry, University of North Carolina, Chapel Hill, N. C. (50). 1901. **C**

Wheeler, Benjamin Ide, Ph. D., LL. D., President, University of California, Berkeley, Cal. (65). **I L M**

Wheeler, Charles A., Professor of Mathematics, Connecticut Agricultural College, Storrs, Conn. (61). **A M**

Wheeler, Clark S., Department of Farm Crops, College of Agriculture, Columbus, Ohio. (66). **M**

Wheeler, Henry Clyde, Associate Professor of Soil Physics, Agricultural Experiment Station, Urbana, Ill. (64). **G**

Wheeler, Herbert Locke, D. D. S., 560 5th Ave., New York, N. Y. (57). **K**

*Wheeler, Homer Jay, Ph. D., American Agricultural Chemical Co., Boston, Mass. (54). 1909. **C E M**

*Wheeler, Lynde Phelps, Ph. D., Assistant Professor of Physics, Yale University, New Haven, Conn. (60). 1910. **B**

Wheeler, Ruth, Ph. D., 908 West Nevada St., Urbana, Ill. (58). **C L**

*Wheeler, William Morton, Ph. D., Professor of Economic Entomology, Bussey Institution, Forest Hills, Boston, Mass. (50). 1901. **F H**

Wheelock, Raymond P., E. M., care Enterprise Mine, P. O. Box 125, Kingman, Ariz. (58). **D**

WHEELOCK, WILLIAM E., M. D., Morristown, N. J. (57). **K**

Wheelwright, William Dana, Portland, Oregon. (57). **A I**

*WHELPLEY, HENRY MILTON, M. D., 2342 Albion Place, St. Louis, Mo. (52). 1913. **H K**

Whelpley, James Davenport, Cosmos Club, Washington, D. C. (52). **I**

*Wherry, Edgar Theodore, Ph. D., U. S. National Museum, Washington, D. C. (57). 1911. **C E**

*Wherry, William Buchanan, M. D., City Hospital, Cincinnati, Ohio. (63). 1915. **K**

*Whetzel, Herbert Hice, Professor of Plant Pathology, New York State College of Agriculture, Ithaca, N. Y. (56). 1908. **G**

*Whipple, George Chandler, C. E., Professor of Sanitary Engineering, Harvard University, Cambridge, Mass. (54). 1906. **C D**

*Whipple, George Hoyt, M. D., Director Hooper Institute, San Francisco, Cal. (60). 1911. **F K**

*Whipple, Guy Montrose, Ph. D., University of Illinois, Urbana, Ill. (58). 1912. **H L**

*Whitaker, Milton C., Professor of Industrial and Engineering Chemistry, Columbia University, New York, N. Y. (64). 1915. **C**

Whitbeck, John F. W., M. D., 781 Park Ave., Rochester, N. Y. (60). **K**

Whitcomb, W. O., Montana Agricultural Experiment Station, Bozeman, Mont. (66). **M**

Whitcomb, William Henry, Professor of Chemistry, Miami University, Oxford, Ohio. (58). **C**

White, Benjamin, Ph. D., Research and Antitoxin Laboratories, Otisville, N. Y. (63). **K**

*White, David, Chief Geologist, U. S. Geological Survey, Washington, D. C. (40). 1892. **E G**

White, Edith Grace, 77 Brighton Ave., Allston, Mass. (66). **F**

White, Edward Woodman, Sardis, B. C., Canada. (63). **G**

White, G. C., Professor of Dairy Husbandry, Connecticut Agricultural Experiment Station, Storrs, Conn. (66). **M**

White, Goodrich Cook, Professor of Mental and Moral Science, Emory College, Oxford, Ga. (65). **H I L**

White, Harry Oscar, M. D., Professor of Anatomy, University of Southern California, Los Angeles, Cal. (63). **K**

*White, Henry Clay, Sc. D., Ph. D., LL. D., Professor of Chemistry, University of Georgia, Athens, Ga. (29). 1885. **C**

White, Henry K., Catonsville, Md. (63).

*White, Henry Seely, Ph. D., Professor of Mathematics, Vassar College, Poughkeepsie, N. Y. (58). 1909. **A**

*White, Horace, LL. D., Editor, *New York Evening Post*, 18 West 69th St., New York, N. Y. (50). 1901. **I**

*WHITE, ISRAEL C., Ph. D., State Geologist of West Virginia, Morgantown, W. Va. (25). 1882. **E**

White, J. A., Buchanan, Mich. (58). **C**

White, James Herbert, University of Toronto, Toronto, Canada. (62). **G**

White, Jesse Hayes, Professor of Psychology and Education, University of Pittsburgh, Pittsburgh, Pa. (62). **H L**

*White, John, Ph. D., Professor of Chemistry, Rose Polytechnic Institute, Terre Haute, Ind. (58). 1910. **C**

White, Laura Bradstreet, 29 Wallingford Road, Brighton, Mass. (60). **C**

White, Lazarus, C. E., 612 West 137th St., New York, N. Y. (60). **D**

White, Linden G., E. E., General Superintendent, Columbus Railway and Light Co., Columbus, Ohio. (60). **D**

White, Mrs. N. G., 1615 New Hampshire Ave., N. W., Washington, D. C. (52).

White, Orland Emile, Ph. D., Bussey Institution, Forest Hills, Boston, Mass. (61). **G**

White, Oscar W., 1116 F St., N. W., Washington, D. C. (52). **D**

White, Richard J., 10 South St., Baltimore, Md. (60).

White, Stewart Edward, Santa Barbara, Cal. (66). **E M**

White, William E., M. D., Lyons, Wis. (60). **K**

White, William T., 508 Broad St., Knoxville, Tenn. (58). **A C E F G L**

Whiteford, G. H., Professor of Chemistry, Albright College, Myerstown, Pa. (64). **C**

*Whitehead, Richard Henry, M. D., LL. D., Dean, Medical Department, University of Virginia, Charlottesville, Va. (58). 1911. **K**

Whitehill, Alexander R., Ph. D., Professor of Chemistry, West Virginia University, Morgantown, W. Va. (65). **C**

Whitehill, M. H., 12 East Broad St., Richmond, Va. (64).

*Whitehorne, William Risby, Ph. D., Professor of Physics, Bates College, Lewiston, Me. (52). 1911. **B C**

*Whitfield, James Edward, Ph. D., 406 Locust St., Philadelphia, Pa. (44). 1896. **C**

*Whitford, Harry Nichols, Ph. D., Forest Branch, Victoria, B. C., Canada. (54). 1909. **G**

Whiting, Albert Lemuel, Ph. D., 504 East Chalmers St., Champaign, Ill. (63).

Whiting, Charles Allen, M. D., 67 West 49th St., New York, N. Y. (57). **K**

Whiting, Henry Augustus, M. D., The Walbert, Baltimore, Md. (60). **K**

WHITING, PHINEAS W., Ph. D., University of Pennsylvania, Philadelphia, Pa. (65). **F**

*Whiting, Sarah Frances, Sc. D., Director, Whitin Observatory, Wellesley College, Wellesley, Mass. (31). 1883. **A B**

Whitman, Alfred R., Schumacher, Ontario, Canada. (65).

Whitman, E. C., Canso, Nova Scotia, Canada. (60).

*Whitman, Frank Perkins, Sc. D., Professor of Physics, Adelbert College, Cleveland, Ohio. (33). 1885. **A B**

Whitman, Ralph, C. E., U. S. Naval Avademy, Annapolis, Md. (60). **D**

Whitmore, Eugene R., U. S. A., 2349 Ashmead Place, N. W., Washington, D. C. (64). **F K**

Whitmore, Francis E., Curator, Cortland Science Club, Cortland, N. Y. (54).

Whitmore, Harry Gregory, Parnassus, Va. (66). **B C**

Whitmore, Lawrence H., E. M., P. O., Box 163, Bulawayo, Rhodesia, South Africa. (60). **D**

*Whitnall, Harold Orville, Assistant Professor of Mineralogy and Economic Geology, Colgate University, Hamilton, N. Y. (61). 1915. **E**

*Whitney, David Day, Ph. D., Associate Professor of Zoology, Wesleyan University, Middletown, Conn. (60). 1911. **F**

*Whitney, Miss Mary W., 238 Bacon St., Waltham, Mass. (47). 1900. **A**

Whitney, Paul C., U. S. Coast and Geodetic Survey, Washington, D. C. (60). **E**

Whitney, Solon Franklin, 37 Garfield St., Watertown, Mass. (52).

*Whitney, Willis Rodney, Ph. D., Director, Research Laboratory, General Electric Co., Schenectady, N. Y. (63). 1914. **D**

Whitson, Andrew Robinson, Professor of Soils, College of Agriculture, Madison, Wis. (58). **B C M**

Whittaker, Elizabeth Leigh, Professor of Biology, Elmira College, Elmira, N. Y. (65). **F**

*Whittelsey, Theodore, Ph. D., Director, General Laboratories, U. S. Rubber Co., New York, N. Y. (53). 1906. **C**

Whittemore, George W., E. E., 284 New York Ave., Brooklyn, N. Y. (60). **D**

*Whitten, John Charles, Ph. D., Professor of Horticulture, University of Missouri, Columbia, Mo. (63). 1915. **G**

Whitten, John Hamilton, 7111 Normal Ave., Chicago, Ill. (63).

Whittier, Charles T., 78 Brinkerhoff St., Jersey City, N. J. (58). **C**

*Whittier, Frank Nathaniel, M. D., Professor of Pathology and Bacteriology, Bowdoin College, Brunswick, Me. (54). 1911. K

Whittlesey, George Patten, 1438 Belmont St., Washington, D. C. (63). B

*Wick, Frances Gertrude, Ph. D., Vassar College, Poughkeepsie, N. Y. (60). 1911. B

*Wickersham, Judge James, House of Representatives, Washington, D. C. (58). 1913. H

Wickes, L. Webster, E. M., 134 Norton Ave., Los Angeles, Cal. (58). D

*Wickham, Henry Frederick, Professor of Entomology, State University of Iowa, Iowa City, Iowa. (54). 1908. F

Wickhorst, Max H., Engineer of Tests, 254 South Ave., Aurora, Ill. (60). D

Wickson, Edward James, Emeritus Professor of Horticulture, University of California, Berkeley, Cal. (66). G M

Widtsoe, John Andreas, Ph. D., President, Agricultural College of Utah, Logan, Utah. (60). C

Wiedemann, H. Edmund, 1105 Holland Bldg., St. Louis, Mo. (58). C

*Wiegand, Karl McKay, Ph. D., Professor of Botany, New York State College of Agriculture, Ithaca, N. Y. (45). 1899. G M

*Wieman, Harry Lewis, Ph. D., Department of Zoology, University of Cincinnati, Cincinnati, Ohio. (58). 1913. F

Wiener, Alexander C., M. D., 100 State St., Chicago, Ill. (58). K

Wiener, Solomon, M. D., 67 West 89th St., New York, N. Y. (60). K

Wiggam, Albert Edward, North Vernon, Ind. (63). F

Wiggins, Cleo Claude, University of Missouri, Columbia, Mo. (65). G

Wigglesworth, Edward, 109 Chestnut St., Boston, Mass. (60).

WIGGLESWORTH, GEORGE, 53 State St., Boston, Mass. (60).

Wight, Ambrose Benson, 316 North Scoville Ave., Oak Park, Ill. (58).

*Wight, William Franklin, U. S. Department of Agriculture, Washington, D. C. (54). 1911. G

Wilber, David Truxton, 93 Leroy St., Binghamton, N. Y. (63). E

*Wilbert, Martin I., Hygienic Laboratory, 25th and E Sts., N. W., Washington, D. C. (58). 1914. C

Wilbour, Mrs. Charlotte B., 40 Central Park, South, New York, N. Y. (28).

*Wilbur, Albert B., Middleton, N. Y. (23). 1874. E

*Wilbur, Ray Lyman, M. D., 1201 Bryant St., Palo Alto, Cal. (50). 1901. F K

Wilcox, Miss Alice Wilson, Fairbanks Museum of Natural Science, St. Johnsbury, Vt. (64). F

*Wilcox, Edwin Mead, Ph. D., Professor of Agricultural Botany, University of Nebraska, Lincoln, Nebr. (50). 1901. G

*Wilcox, Guy Maurice, Professor of Physics, Armour Institute of Technology, Chicago, Ill. (53). 1909. B

Wilcox, Raymond B., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (64). G

Wilcox, Reynold Webb, M. D., LL. D., 679 Madison Ave., New York, N. Y. (60). **K**

*Wilcox, Wendell Garrett, Ph. D., Professor of Chemistry, Alfred University, Alfred, N. Y. (56). 1909. **C**

*Wilczynski, Ernst Julius, Ph. D., Professor of Mathematics, University of Chicago, Chicago, Ill. (60). 1911. **A**

*Wilde, Norman, Ph. D., Washington Court, 51 Brattle St., Cambridge, Mass. (60). 1911. **H**

*Wilder, Burt Green, M. D., Brookline, Mass. (51). 1902. **F**

*Wilder, Frank Alonzo, Southern Gypsum Co., North Holston, Va. (64). 1915. **E**

Wilder, William H., M. D., 5811 Monroe Ave., Chicago, Ill. (58). **K**

Wildman, Edward Embree, 4331 Osage Avenue, Philadelphia, Pa. (57).

Wildman, M. L., Stanford University, Cal. (66).

*Wiley, Harvey Washington, M. D., Ph. D., LL. D., Cosmos Club, Washington, D. C. (21). 1874. **B C H I K L**

Wiley, Walter Howard, E. M., 367 South Bonnie Brae St., Los Angeles, Cal. (60). **D**

*Wiley, William Halstead, C. E., 432 4th Ave., New York, N. Y. (50). 1906. **D E**

Wilkins, Miss Lewanna, 1414 Girard St., Washington, D. C. (52). **F G L**

Wilkinson, Henry B., 520 North Central Ave., Phoenix, Arizona. (65).

*Wilkinson, Levi Washington, Professor of Industrial and Sugar Chemistry, Tulane University, New Orleans, La. (50). 1903. **C**

Wilkinson, W. W., M. D., 144 North 2d Ave., Phoenix, Ariz. (66). **K**

*Willard, Daniel Everett, 312 Northern Pacific Ry., St. Paul, Minn. (62). 1911. **E**

*Willard, Hobart Hurd, Ph. D., 802 Monroe St., Ann Arbor, Mich. (58). 1911. **C**

*Willard, Julius Terrass, Sc. D., Professor of Chemistry, Kansas State Agricultural College, Manhattan, Kans. (50). 1906. **C**

*Willard, William Albert, Professor of Histology and Embryology, University of Nebraska College of Medicine, Omaha, Nebr. (62). 1914. **F K**

*Willcox, Mary Alice, Ph. D., 63 Oakwood Road, Newtonville, Mass. (50). 1901. **F**

*Willcox, Oswin William, Ph. D., 10 Lincoln Ave., Dover, N. J. (58). 1911. **C**

*Willcox, Walter Francis, Ph. D., LL. D., Professor of Economics and Statistics, Cornell University, Ithaca, N. Y. (50). 1901. **I**

Willetts, Elmore A., Belmont, N. Y. (66).

Willetts, Ernest W., M. D., Pathologist to Pennsylvania Hospital, 5101 Liberty Ave., Pittsburgh, Pa. (58). **K**

Williams, Anna Wessels, M. D., 549 Riverside Drive, New York, N. Y. (56). **K**

Williams, Arthur, E. E., Irving Place and 15th St., New York, N. Y. (65). **D**

Williams, Asa Starkweather, Allis-Chalmers-Bullock, Ltd. Montreal, Canada. (62).

Williams, Carlos Grant, Chief, Department of Agronomy, Ohio Agricultural Experiment Station, Wooster, Ohio. (63). **G M**

*Williams, Charles Herbert, M. D., 1069 Boylston St., Boston, Mass. (22). 1874. **B K**

Williams, Charles Mallory, M. D., 48 East 49th St., New York, N. Y. (57). **H K L**

Williams, Charles Whiting, 401 Chamber of Commerce Building, Cleveland, Ohio. (63).

*Williams, Clarke Benedict, Professor of Mathematics, Kalamazoo College, Kalamazoo, Mich. (54). 1906. **A**

Williams, Cyrus Vance, Professor of Botany, Nebraska Wesleyan University, Lincoln, Nebr. (62). **G**

*Williams, Edward Higginson, Jr., Sc. D., LL. D., Westerdale, Vt. (25). 1894. **E**

*Williams, Francis Henry, M. D., 505 Beacon St., Boston, Mass. (29). 1890. **K**

*Williams, Francis Xavier, Bussey Institution, Forest Hills, Boston, Mass. (64). 1915. **F**

*Williams, Frank Blair, Ph. D., Professor of Mathematics, Clark University, Worcester, Mass. (53). 1911. **D**

Williams, Frank H., Brownsville, Texas. (50). **E**

Williams, G. C. F., 990 Prospect Ave., Hartford, Conn. (60). **I**

*Williams, Gardner Fred, LL. D., 2201 R St., Washington, D. C. (60). 1915. **D**

*Williams, Guy Yandell, University of Oklahoma, Norman, Okla. (58). 1911. **B C**

Williams, Harvey Daniel, Wallingford, Conn. (62).

Williams, Henry J., C. E., 30 Norfolk Road, Chestnut Hill, Mass. (60). **D**

*Williams, Henry Shaler, Ph. D., Professor of Geology, Cornell University, Ithaca, N. Y. (18). 1882. **E**

Williams, Henry Smith, M. D., LL. D., 120 West 32d St., New York, N. Y. (65). **K**

Williams, Dr. Horatio Burt, 437 West 59th St., New York, N. Y. (63). **K**

*Williams, Ira Abraham, Professor of Ceramics, Oregon School of Mines, Corvallis, Ore. (52). 1908. **D E**

Williams, Ira W., State Capitol, Atlanta, Ga. (65). **G**

Williams, John C., 221 Orchard Ave., Ridgway, Pa. (51). **E G**

Williams, John Edward, Ph. D., Professor of Mathematics, Virginia Polytechnic Institute, Blacksburg, Va. (58). **A**

Williams, John Townsend, E. M., 815 Madison Ave., New York, N. Y. 57). **A C D**

*Williams, John Whitridge, M. D., Sc. D., 1128 Cathedral St., Baltimore, Md. (50). 1901. **K**

Williams, Miss Katharine I., Llandaff House, Pembroke Vale, Clifton, Bristol, England. (58). **C**

Williams, Leon Franklin, Ph. D., Assistant Professor of Chemistry, North Carolina College of A. and M. Arts, West Raleigh, N. C. (58). **C**

*Williams, Mabel Clare, Ph. D., Assistant Professor of Psychology, State University of Iowa, Iowa City, Iowa. (52). 1911. **H L**

*Williams, Merton Yarwood, Ph. D., Victoria Memorial Museum, Ottawa, Canada. (63). 1915. **E**

Williams, Robert Day, P. O. Box 232, Claremont, Cal. (65).

Williams, Roger Butler, 306 North Cayuga St., Ithaca, N. Y. (64).

Williams, Roland H., Teachers College, New York, N. Y. (60). **A C**

Williams, Samuel Robinson, Ph. D., Professor of Physics, Oberlin College, Oberlin, Ohio. (63). **B**

*Williams, Stephen Riggs, Ph. D., Professor of Biology and Geology, Miami University, Oxford, Ohio. (50). 1906. **E F**

Williams, Mrs. Sydney M., Wellesley, Mass. (60).

Williams, Timothy Shaler, Huntington, Long Island, N. Y. (60). **I**

Williams, Thornton R., M. D., Punxsutawney, Pa. (60). **K**

Williams, William Whitridge, M. D., 236 Metropolitan Building, Denver, Colo. (62). **K**

*Williamson, Charles Spencer, Jr., Associate Professor of Chemistry, Tulane University, New Orleans, La. (60). 1915. **C**

*Williamson, Edward Bruce, Bluffton, Ind. (50). 1906. **F**

Williamson, Henry Dale, E. M., Rising Sun Petroleum Co., Yokohama, Japan. (60). **D**

Williamson, Mrs. M. Burton, 2343 Ocean View Ave., Los Angeles, Cal. (44). **F H**

Williamson, Theresa Gertrude, Hannah More Academy, Reisterstown, Md. (58). **C G**

Willing, Thomas Nathaniel, 417 Clarence Ave., Saskatoon, Saskatchewan, Canada. (58). **F**

*Willis, Bailey, Ph. D., Head Professor of Geology, Leland Stanford Junior University, Stanford University, Cal. (36). 1890. **E**

Willis, Miss Mina Augusta, Botany Department, University of Idaho, Moscow, Idaho. (66). **F G**

*Williston, Arthur Lyman, M. E., 27 Kilsyth Road, Brookline, Mass. (51). 1906. **D**

*Williston, Samuel Wendell, M. D., Sc. D., Ph. D., Professor of Paleontology, University of Chicago, Chicago, Ill. (51). 1902. **F K**

*Willoughby, Charles Clark, Assistant Director, Peabody Museum, Cambridge, Mass. (45). 1897. **H**

Willoughby, Levi Philip Ray, Jeffersonville, Ind. (64).

*Wills, Albert Potter, Ph. D., Professor of Mathematical Physics, Columbia University, New York, N. Y. (53). 1906. **A B**

Wills, Joseph Lainson, The Otto J. Stifel Union Brewing Co., Gravois and Michigan Aves., St. Louis, Mo. (50). **B C G**

*Willson, Frederick Newton, C. E., Professor of Graphics, Princeton University Princeton, N. J. (33). 1887. **A D**

Willson, Mortimer, M. D., 6th and Water Sts., Port Huron, Mich. (50). **A F K**

*Willson, Robert Wheeler, Ph. D., Professor of Astronomy, Harvard University, Cambridge, Mass. (30). 1890. **A B**

WILMARTH, MRS. HENRY D., West Boxford, Mass. (40).

*Wilmore, John Jenkins, Dean, School of Engineering, Alabama Polytechnic Institute, Auburn, Ala. (51). 1915. **D**

*Wilson, Charles Branch, Sc. D., Ph. D., Head, Department of Science, State Normal School, Westfield, Mass. (52). 1906. **F**

*Wilson, Delonza Tate, Ph. D., Associate Professor of Mathematics and Astronomy, Case School of Applied Science, Cleveland, Ohio. (53). 1906. **A**

*Wilson, Edmund Beecher, M. D., Sc. D., Ph. D., LL. D., Professor of Zoology, Columbia University, New York, N. Y. (49). 1900. **F**

*Wilson, Edwin Bidwell, Ph. D., Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass. (65). 1915. **A**

*Wilson, Francis Daniel, Ph. D., 13 North Ferry St., Schenectady, N. Y. (57). 1909. **C**

*Wilson, Guy West, State University of Iowa, Iowa City, Iowa. (58). 1911. **G**

*Wilson, H. F., Oregon Experiment Station, Corvallis, Oregon. (65). 1915. **F**

Wilson, H. P., M. D., Whittier, Cal. (60). **K**

*Wilson, Harold Albert, Sc. D., Professor of Physics, The Rice Institute, Houston, Texas. (61). 1911. **B**

*Wilson, Henry Van Peters, Ph. D., Professor of Zoology, University of North Carolina, Chapel Hill, N. C. (50). 1901. **F**

Wilson, Herrick East, 224 West College St., Oberlin, Ohio. (63). **E**

*WILSON, J. HOWARD, Castine, Me. (57). 1913. **E H**

*Wilson, James Meredith, 2nd National Bank Building, Washington, D. C. (58). 1913. **C F**

Wilson, John C., Cosmos Club, Washington, D. C. (49). **I**

*Wilson, John Gordon, M. D., Professor of Otology, Northwestern University Medical College, Chicago, Ill. (58). 1908. **F K**

*WILSON, LOUIS BLANCHARD, M. D., St. Mary's Hospital, Rochester, Minn. (62). 1913. **K**

Wilson, M. S., Burlingame, Cal. (65).

Wilson, Prof. Margaret B., Hunter College of New York, New York, N. Y. (57). **H K**

*Wilson, Norman Richard, Ph. D., Professor of Mathematics, University of Manitoba, Winnipeg, Canada. (55). 1907. **A**

Wilson, Robert, Jr., M. D., 165 Rutledge Ave., Charleston, S. C. (60). **K**

*Wilson, Robert N., Stand Off, Alberta, Canada. (42). 1895. **H**

*Wilson, Robert North, Assistant Professor of Chemistry, Trinity College, Durham, N. C. (60). 1911. **C**

Wilson, W. E., Washington State Normal School, Ellensburg, Wash. (66).

*Wilson, William Powell, Sc. D., Director, Philadelphia Museums, Philadelphia, Pa. (38). 1889. **G**

Wily, James Hunter, E. E., Assistant Professor of Physics, Lehigh University, South Bethlehem, Pa. (60). **B D**

Wimpfheimer, Charles A., 450–460 Fourth Ave., New York, N. Y. (57).
*Winchell, Alexander Newton, Sc. D., Professor of Mineralogy and Petrology, University of Wisconsin, Madison, Wis. (50). 1904. **C E**
*Winchell, Horace Vaughn, E. M., 505 Palace Building, Minneapolis, Minn. (34). 1890. **C E**
Winchester, Dean E., U. S. Geological Survey, Washington, D. C. (63). **E**
*WINCHESTER, GEORGE, Professor of Physics, Washington and Jefferson College, Washington, Pa. (63). 1915. **B**
Windesheim, Gustave, M. D., 303 Main St., Kenosha, Wis. (51). **H K**
Wing, Asa Shove, "Wingwood," Moorestown, N. J. (65).
Wing, Henry Hiram, Professor of Animal Husbandry, Cornell University, Ithaca, N. Y. (56). **F**
Wingerter, Charles A., M. D., 75 Twelfth St., Wheeling, W. Va. (60). **K**
Winkenwerder, Hugo, Professor of Forestry, University of Washington, Seattle, Wash. (64). **G M**
*Winne, Charles Knickerbocker, Jr., M. D., 222 Lark St., Albany, N. Y. (60). 1911. **K**
*Winslow, Charles Edward Amory, Professor of Public Health, Yale Medical School, New Haven, Conn. (51). 1903. **F K**
Winslow, Mrs. C. E. A., 411 West 114th St., New York, N. Y. (52). **F**
*Winslow, Guy Monroe, Ph. D., Principal, Lasell Seminary, Auburndale, Mass. (58). 1911. **F K L**
Winslow, William Herman, P. O. Box 803, Chicago, Ill. (65).
Winsor, L. M., 155 East 6th South St., Salt Lake City, Utah. (66). **M**
Winston, Isaac, Room 403, Custom House, New York, N. Y. (55). **A**
Winston, John Robinson, Hood River Agricultural Substation, Hood River, Oregon. (63). **G**
*Winterhalter, Adm. A. G., U. S. N., U. S. S. Saratoga, Asiatic Station, care Postmaster, San Francisco, Cal. (37). 1893. **A**
Winterhalter, Wilhelm Karl, Hearst Building, San Francisco, Cal. (63). **G**
*Winternitz, Milton C., M. D., Johns Hopkins Hospital, Baltimore, Md. (62). 1915. **K**
Winters, R. Y., North Carolina Agricultural Experiment Station, West Raleigh, N. C. (66). **M**
Winton, Hortense Tucker, The Rice Institute, Houston, Texas. (63). **F G**
Winton, Mrs. Kate Barber, Ph. D., Westport, Conn. (60). **C**
Winton, Will McClain, Professor of Biology, The Rice Institute, Houston, Texas. (58). **E F G**
Wintringham, J. P., E. E., 153 Henry St., Brooklyn, N. Y. (60). **B E F**
WIRTNER, REV. M., Nicktown, Pa. (58). **F**
*Wissler, Clark, Ph. D., Curator of Anthropology, American Museum of Natural History, New York, N. Y. (54). 1906. **H**
*Withers, William Alphonso, Professor of Chemistry, North Carolina College of Agriculture and Mechanic Arts, Raleigh, N. C. (33). 1891. **C**
*Witherspoon, Thomas Casey, M. D., 307 West Granite St., Butte, Mont. (58). 1913. **K**
Withington, David L., Honolulu, Hawaii. (66).

*Withrow, James Renwick, Ph. D., Professor of Chemistry, Ohio State University, Columbus, Ohio. (60). 1910. **C**

Witmer, Joseph Franklin, C. E., Chapin Block, Buffalo, N. Y. (60). **D**

*Witmer, Lightner, Ph. D., Professor of Psychology, University of Pennsylvania, Philadelphia, Pa. (46). 1905. **H L**

*Witmer, Luther F., 2923 Macomb St., Washington, D. C. (60). 1914. **C**

Witte, Max Ernst, M. D., Superintendent, Clarinda State Hospital, Clarinda, Iowa. (51). **H K**

*Witthaus, Rudolph August, M. D., 2039 Broadway, New York, N. Y. (35). 1890. **C K**

Wixford, John F., 2223 North Ninth St., St. Louis, Mo. (58). **D**

Wobus, Reinhard E., M. D., 2406 Kings Highway, N. E., St. Louis, Mo. (60). **K**

*Wodsedalek, Jerry Edward, Ph. D., Department of Zoology, University of Idaho, Moscow, Idaho. (63). 1915. **F**

*Woelfel, Albert, M. D., Department of Physiology, University of Chicago, Chicago, Ill. (54). 1910. **K**

*Woglum, Russell Sage, 150 South Holliston Ave., Pasadena, Cal. (54). 1914. **F**

*Woglum, William H., M. D., Assistant Professor of Physiology and Experimental Medicine, Columbia University, New York, N. Y. (65). 1915. **K**

*Wolcott, Edson Ray, 232 North Carondelet St., Los Angeles, Cal. (54). 1907. **B C D**

Wolcott, George N., Insular Experiment Station, Rio Piedras, Porto Rico, C. A. (65). **F M**

*Wolcott, Robert Henry, M. D., Head, Department of Zoology, University of Nebraska, Lincoln, Nebr. (60). 1911. **F K**

Wolcott, William Prescott, Readville, Mass. (60).

*Wolf, Frederick Adolph, Ph. D., Professor of Plant Pathology, Alabama Polytechnic Institute, Auburn, Ala. (60). 1913. **G**

*Wolf, Harry John, E. M., Professor of Mining, Colorado School of Mines, Golden, Colo. (64). 1915. **D**

Wolfe, Elmer Ellsworth, Ph. D., 219 North Fairmount St., East Liberty, Pittsburgh, Pa. (51). **B C L**

Wolfe, Harold E., 18 Forest Ave., Vermilion, S. D. (66).

*Wolff, Frank Alfred, Ph. D., Bureau of Standards, Washington, D. C. (47). 1900. **B**

Wolff, Henry Albert, M. D., 300 Hammond St., Chestnut Hill, Boston, Mass. (57). **K**

*Wolff, John Eliot, Ph. D., University Museum, Cambridge, Mass. (36). 1894. **E**

Wolff, Mark A., E. M., Salisbury House, London, E. C., England. (60). **D**

Woll, Frederic A., Ph. D., College of the City of New York, New York, N. Y. (63). **K**

*Woll, Fritz Wilhelm, Ph. D., Professor of Animal Nutrition, University Farm, Davis, Cal. (42). 1897. C

Wolverton, Byron C., E. E., care Friendship Telephone Co., Syracuse, N. Y. (50). D

Wood, A. E., Department of Science, State Normal School, Florence, Ala. (61). L

*Wood, Casey Albert, M. D., President, American Academy of Medicine, 7 West Madison St., Chicago, Ill. (56). 1911. F K

Wood, Mrs. Cynthia A., 117 West 58th St., New York, N. Y. (43).

Wood, D. R., 269 South 12th St., San José, Cal. (65).

Wood, Miss Elvira, 2 Chamberlain Terrace, Waltham, Mass. (47). E

*Wood, Francis Carter, M. D., Professor of Chemical Pathology, Columbia University, New York, N. Y. (57). 1908. K

*Wood, Harry O., Hawaiian Volcano Observatory, Volcano House, Hawaii. (65). 1915. A B

Wood, Henry A. Wise, 25 Madison Ave., New York, N. Y. (57). D

*Wood, Horatio C., Jr., M. D., 434 South 44th St., Philadelphia, Pa. (58). 1911. K

Wood, Col. M. W., U. S. A., Boise, Idaho. (66). M

*Wood, Thomas Denison, M. D., Professor of Physical Education, Teachers College, Columbia University, New York, N. Y. (51). 1902. K

Wood, Walter, E. M., 400 Chestnut St., Philadelphia, Pa. (33). F I

Wood, Walter Hallock, R. F. D. 1, Salem, Ohio. (58). A

Woodard, John, Ohio Agricultural Experiment Station, Wooster, Ohio. (64). G

Woodard, Silas H., C. E., 7 East 42d St., New York, N. Y. (60). D

*Woodbridge, Frederick James Eugene, LL. D., Professor of Philosophy, Columbia University, New York, N. Y. (52). 1905. H

Woodbury, Charles Goodrich, Professor of Horticulture, Agricultural Experiment Station, La Fayette, Ind. (63). G

*Woodbury, Charles Jeptha Hill, Sc. D., E. E., 45 Milk St., Boston, Mass. (29). 1884. B D

*Woodhull, John Francis, Ph. D., Professor of Physical Science, Columbia University, New York, N. Y. (43). 1899. B L

Woodhull, Gen. Maxwell Van Zandt, U. S. A., 2033 G St. N. W., Washington, D. C. (52).

*Woodman, Alpheus Grant, Massachusetts Institute of Technology, Boston, Mass. (60). 1911. C

*Woodman, Joseph Edmund, Sc. D., Professor of Geology and Mineralogy, New York University, New York, N. Y. (56). 1913. E I L

Woodman, Leon Elmer, Ph. D., Associate Professor of Physics, University of Maine, Orono, Me. (62). B

*Woodruff, Eugene Cyrus, Ph. D., State College, Pa. (63). 1915. D

*Woodruff, Lorande Loss, Ph. D., Professor of Biology, Yale College, New Haven, Conn. (52). 1908. F K

*Woods, Albert Frederick, Dean and Director, College of Agriculture, University of Minnesota, Minneapolis, Minn. (43). 1897. **B C F G H I K L M**

*Woods, Charles Dayton, Sc. D., Director, Maine Agricultural Experiment Station, Orono, Me. (50). 1901. **C M**

*Woods, Frederick Adams, M. D., 1006 Beacon St., Brookline, Mass. (51). 1902. **F H**

*Woods, Frederick Shenstone, Ph. D., Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass. (58). 1909. **A L**

*Woods, Herbert Spencer, Berkeley, Cal. (58). 1911. **C L**

Woods, William Colcord, Department of Biology, Cornell University, Ithaca, N. Y. (65). **F**

Woodward, Augustus Janvier, M. D., Hotel Auburn, Cincinnati, Ohio. (57). **E K**

Woodward, Karl Wilson, U. S. Forest Service, Washington, D. C. (63). **G M**

Woodward, Laura E., 449 Chestnut Ave., Trenton, N. J. (66).

*WOODWARD, ROBERT SIMPSON, Sc. D., Ph. D., LL. D., President, Carnegie Institution of Washington, Washington, D. C. (33). 1885. **A B D**

*Woodward, Samuel B., M. D., 58 Pearl St., Worcester, Mass. (51). 1906. **E H**

Woodward, Sherman M., care Morgan Engineering Corp., Dayton, Ohio. (57). **A**

*Woodworth, Charles William, Professor of Entomology, University of California, Berkeley, Cal. (50). 1906. **F**

*Woodworth, Jay Backus, Associate Professor of Geology, Harvard University, Cambridge, Mass. (54). 1906. **E**

*Woodworth, Robert Sessions, Ph. D., Professor of Psychology, Columbia University, New York, N. Y. (49). 1901. **H K**

Woollen, William Watson, 518 American Central Life Building, Indianapolis, Ind. (55). **F**

*Woolley, Paul Gerhart, M. D., Professor of Pathology, University of Cincinnati, Cincinnati, Ohio. (55). 1910. **C K**

Woolsey, T. S., Jr., U. S. Forest Service, "Stonycroft," Albuquerque, N. Mex. (66). **M**

*Wooster, Lyman Child, Ph. D., Professor of Biology and Geology, State Normal School, Emporia, Kans. (54). 1911. **E F G**

*Wooton, Elmer O., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (56). 1911. **G**

Worcester, Dean A., Associate Professor of Psychology, University of New Mexico, Albuquerque, N. M. (65). **H**

*Worcester, Dean Conant, U. S. Philippine Commission, 20 Calle Nagtajan, Manila, P. I. (46). 1903. **F H**

*Worcester, Philip George, Department of Geology, University of Colorado, Boulder, Colo. (60). 1915. **E**

Worcester, Wilfred J., 137 East 37th St., New York, N. Y. (57).

Work, William Roth, Professor of Electrical Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. (57). **D**

Workman, Harper M., M. D., Tracy, Minn. (60). **K**

Works, George Alan, Professor of Rural Education, New York State College of Agriculture, Ithaca, N. Y. (66). **G L M**

*Worsham, Ernest Lee, State Entomologist, Atlanta, Ga. (58). 1914. **F**

*Worsham, William Archer, Jr., Professor of Agricultural Chemistry, Georgia State College of Agriculture, Athens, Ga. (62). 1914. **C M**

*Worthen, Thomas Wilson Dorr, Emeritus Professor of Mathematics, Dartmouth College, Hanover, N. H. (58). 1911. **A**

*Worthing, Archie Garfield, Ph. D., Terrace Road, Head of Grassmere St., East Cleveland, Ohio. (63). 1915. **B**

Worthington, Charles C., M. E., Shawnee on Delaware, Pa. (62). **D**

*WORTHINGTON, JAMES H., The Observatory, Four Marks, Alton, England. (64). 1915. **A**

*Wright, Albert Hazen, Ph. D., Assistant Professor of Zoology, Cornell University, Ithaca, N. Y. (56). 1913. **F**

Wright, Alexander Holland, Professor of Chemistry and Biology, Muskingum College, New Concord, Ohio. (62). **C F**

*Wright, Arthur Williams, Ph. D., Emeritus Professor of Experimental Physics, Yale University, New Haven, Conn. (14). 1874. **A B**

Wright, Charles A., 1043 Rush St., Chicago, Ill. (65). **C**

Wright, Clarence D., 3001 24th St., N. E., Washington, D. C. (63).

*Wright, Frederic Eugene, Ph. D., Geophysical Laboratory, Washington, D. C. (52). 1906. **B E**

*Wright, George Frederick, D. D., LL. D., Drawer M, Oberlin, Ohio. (29). 1882. **E H**

*Wright, Hamilton, M. D., Metropolitan Club, Washington, D. C. (58). 1914. **K**

*Wright, Henry Wilkes, Ph. D., Professor of Philosophy, Lake Forest College, Lake Forest, Ill. (58). 1915. **H**

Wright, Herbert B., E. M., Pocahontas, Va. (60). **D**

Wright, James Remus, Professor of Physics, University of the Philippines, Manila, P. I. (65). **B**

Wright, Jasper Heman, Mechanics Institute, Rochester, N. Y. (56). **F G**

*Wright, John Shepard, care Eli Lilly and Company, Indianapolis, Ind. (42). 1899. **G**

*Wright, Jonathan, M. D., Director, Department of Laboratories, New York Post-Graduate Medical School, 2d Ave. and 20th St., New York, N. Y. (43). 1911. **F H I K**

Wright, W. Q., Sausalito, Cal. (66).

*Wright, Walter Channing, Room 948, 141 Milk St., Boston, Mass. (54). 1906. **A L**

*Wright, Prof. Walter Livingston, Lincoln University, Pa. (50). 1906. **A B**

Wright, William H., Agricultural Hall, Madison, Wis. (64). **F**

Wright, William Joseph, Director, New York School of Agriculture, Alfred, N. Y. (63). **G M**

*Wulfing, John M., 3348 Longfellow Boulevard, St. Louis, Mo. (60). 1913. **H**

*Wulling, Frederick John, Ph. D., Dean, College of Pharmacy, University of Minnesota, Minneapolis, Minn. (58). 1910. **C**

Wulzen, Miss Rosalind, 2447 Carlton St., Berkeley, Cal. (65).

WUNDERLICH, FREDERICK W., M. D., 184 Joralemon St., Brooklyn, N. Y. (45). **K**

Würster, Oscar H., care Chambers, Ltd., 80 Don Esplanade, Toronto, Canada. (60). **C**

Würtele, Rev. Arthur Hunter, Rector, Calvary Church, Rochester, Minn. (63).

Würtele, John Hunter, 143 McGregor St., Sault Ste Marie, Ontario, Canada. (48).

*Würtele, Rev. Louis Campbell, P. O. Drawer E, Acton Vale, Quebec, Canada. (11). 1875. **E H**

Wussow, August Frank Daniel, 439 West 80th St., Chicago, Ill. (63). **G**

Wyatt, Francis, Ph. D., 20 Fifth Ave., New York, N. Y. (57). **C G**

Wyer, Samuel S., M. E., Harrison Building, Columbus, Ohio. (64). **D**

*Wylie, Clarence Raymond, E. E., University of Cincinnati, Cincinnati, Ohio. (60). 1915. **D**

*Wylie, Robert Bradford, Ph. D., Professor of Morphological Botany, State University of Iowa, Iowa City, Iowa. (53). 1905. **G**

Wynekoop, Gilbert H., M. D., 4500 Sheridan Road, Chicago, Ill. (60). **K**

Wynkoop, Gillett, 531 East 23d St., Brooklyn, N. Y. (58). **C**

Yalden, James Ernest Grant, 120 Woodridge Place, Leonia, N. J. (66). **A L**

*Yamanouchi, Shigeo, Ph. D., 27 Otsuka Nakamachi, Koishakawa-Ku, Tokyo, Japan. (57). 1909. **G**

*Yanney, Benjamin Franklin, Professor of Mathematics, College of Wooster, Wooster, Ohio. (51). 1906. **A**

*Yarrow, Harry C., M. D., 926 17th St., N. W., Washington, D. C. (23). 1874. **F H K**

Yates, Harry S., 1040 Keith Ave., Berkeley, Cal. (65).

*Yates, James Anderson, State Normal School, Pittsburg, Kans. (50). 1911. **B C E F**

Yates, William H., C. E., 449 West 123d St., New York, N. Y. (60). **D**

*Yatsu, Naohidé, Ph. D., Zoological Institute, Imperial University, Tokyo, Japan. (56). 1910. **F**

Yeatman, Pope, E. M., 165 Broadway, New York, N. Y. (58). **D**

Yeaton, Arthur Charles, Lisbon Falls, Me. (60). **C**

*Yerkes, Robert Mearns, Ph. D., Assistant Professor of Comparative Psychology, Harvard University, Cambridge, Mass. (52). 1905. **F H K**

Yerzley, William Alfred, M. E., 250 Littleton Ave., Newark, N. J. (63). **D**

Yoder, Ivan I., M. D., 1400 West 25th St., Cleveland, Ohio. (60). **K**

Yoder, Peter A., Ph. D., 516 2d St., S. E., Washington, D. C. (65). **C G**
*York, Harlan Harvey, Brown University, Providence, R. I. (62). 1913. **G**
Yothers, Merrill A., Assistant Entomologist, Washington Agricultural Experiment Station, Pullman, Wash. (63). **F**
*Yothers, William Walter, P. O. Box 599, Orlando, Fla. (55). 1914. **F**
Youmans, Vincent J., R. D. 4, Ballston Spa, N. Y. (43).
*Young, Abram Van Eps, Professor of Chemistry, Northwestern University, Evanston, Ill. (33). 1886. **B C**
*Young, Anne Sewell, Ph. D., Professor of Astronomy, Mt. Holyoke College, South Hadley, Mass. (54). 1907. **A**
Young, Frank B., M. D., Springdale, Ark. (60). **K**
*Young, George Albert, Ph. D., Petrographer and Field Geologist, Geological Survey of Canada, Ottawa, Canada. (57). 1911. **E**
Young, Gilbert Amos, M. E., Professor of Mechanical Engineering, Purdue University, La Fayette, Ind. (60). **D**
Young, Hugh Hampton, M. D., 330 North Charles St., Baltimore, Md. (53). **K**
Young, John Mason, M. E., Dean of Engineering, College of Hawaii, Honolulu, Hawaii. (60). **D**
Young, Lewis Emanuel, E. M., Department of Economics, University of Illinois, Urbana, Ill. (66). **D I**
Young, Reynold K., Dominion Observatory, Ottawa, Canada. (64). **A**
*Young, Robert Thompson, Ph. D., Professor of Zoology, University of North Dakota, University, N. D. (60). 1913. **F**
*Young, Stewart Woodford, Associate Professor of Chemistry, Leland Stanford Junior University, Stanford University, Cal. (50). 1901. **C**
Young, William, E. M., P. O. Box 396, Prince Rupert, B. C., Canada. (60). **D**
Young, William George, M. D., Ph. D., Widdicomb Building, Grand Rapids, Mich. (66). **E**
Young, Yungyen, Manyang Middle School, Shanghai, China. (65). **G**
Youngberg, Guy E., South Dakota Agricultural Experiment Station, Brookings, S. D. (63). **C M**
Youngblood, Bonney, Director, Texas Agricultural Experiment Stations, College Station, Texas. (65). **G M**
Youngken, Heber Wilkinson, Assistant Professor of Botany and Pharmacognosy, Medico-Chirurgical College, Philadelphia, Pa. (65). **F G**
*Yowell, Everett Irving, C. E., Corbett and Griest Avenues, Station O. Cincinnati, Ohio. (60). 1911. **A**
Yule, Mildred Rebecca, Tipton, Iowa. (65). **F**
Zaleski, Joseph P., M. D., 4645 South Ashland Ave., Chicago, Ill. (60). **K**
Zamora, Manuel, 162 San Sebastian, Manila, P. I. (63). **C**
Zanetti, J. E., Assistant Professor of Chemistry, Columbia University, New York, N. Y. (64). **C I**
*Zapffe, Carl, E. M., P. O. Box 93, Brainerd, Minn. (58). 1914. **D E**
*Zeiss, Carl, care Dr. Hans Boegehold, Jena, Germany. (58). 1915. **A**

*Zeit, Frederic Robert, M. D., Head, Department of Pathology and Bacteriology, Northwestern University Medical School, Chicago, Ill. (58). 1911. **K**

*Zeleny, Anthony, Ph. D., Professor of Physics, University of Minnesota, Minneapolis, Minn. (56). 1908. **B**

*Zeleny, Charles, Ph. D., Associate Professor of Zoology, University of Illinois, Urbana, Ill. (53). 1905. **F**

*Zeleny, John, Ph. D., Professor of Physics, University of Minnesota, Minneapolis, Minn. (50). 1901. **B**

Zeller, S. M., Missouri Botanical Garden, St. Louis, Mo. (66).

*Zerban, Fritz, Ph. D., P. O. Box 238, Experiment Station, Rio Piedras, Porto Rico. (58). 1915. **C**

*Zetek, James, Entomologo del Estado, Box 245, Ancon, C. Z., Panama. (60). 1914. **F**

Zia, Z. Zungtsoo, 121 Fort Hill Ave., Lowell, Mass. (63).

Ziegler, Jacob Frank Simpson, 204 Ohio Building, Clinton, Ill. (64).

Zimmerman, John, 389 Hill St., Dubuque, Iowa. (60). **A**

*Ziwet, Alexander, C. E., Professor of Mathematics, University of Michigan, Ann Arbor, Mich. (38). 1890. **A D**

Zobel, Otto Julius, University of Wisconsin, Madison, Wis. (64). **B**

Zoller, Harper F., University of Puget Sound, Tacoma, Wash. (65).

Zon, Raphæl, U. S. Forest Service, Washington, D. C. (66). **M**

Zook, Leslie Lewis, 545 North 27th St., Lincoln, Nebr. (63). **G**

Zuber, William H., 1149 Prindle St., Chehalis, Washington. (52). **B C**

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California, University of, Library, Berkeley, Cal. (52).

Cedar Rapids, Public Library of, Cedar Rapids, Iowa. (65).

Cincinnati, Public Library of, Cincinnati, Ohio. (53).

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Howard Memorial Library, New Orleans, La. (54).

Howard University, Washington, D. C. (63).

Illinois, University of, Library, Urbana, Ill. (61).

Indiana State Library, Room 47, State House, Indianapolis, Ind. (60).

Instituto Geologico Nacional, 6a del Ciprés 176, Mexico, D. F., Mexico. (60). **E**

Iowa State Teachers College Library, Cedar Falls, Iowa. (58).

Iowa, State University of, Library, Iowa City, Iowa. (54).

Jersey City, Free Public Library of, Jersey City, N. J. (52).

Kentucky, State University of, Library, Lexington, Ky. (66).

Lincoln High School, Scranton Road and Castle Ave., Cleveland, Ohio. (63).

Marietta College Library, Marietta, Ohio. (51).

Michigan State Normal College, Ypsilanti, Mich. (53).

Minnesota Department of Agriculture Library, University Farm, St. Paul, Minn. (61).

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Mt. Holyoke College, Library of, South Hadley, Mass. (58).

Mt. Union College, Library of, Alliance, Ohio. (62).

Nantucket Maria Mitchell Association, The, Nantucket, Mass. (58). **A G**

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Nebraska Wesleyan University, The Library of, University Place, Nebr. (65).

New York State College of Forestry, Syracuse, N. Y. (64).

NEW YORK STATE LIBRARY, James I. Wyer, Jr., Director, Albany, N. Y. (60).

New York University Library, University Heights, New York, N. Y. (60).

Normal College, Truro, Nova Scotia, Canada. (64).

Ohio State University Library, Columbus, Ohio. (54).
Oregon, University of, Library, Eugene, Ore. (60).
Ottawa University, Library of, Ottawa, Kansas. (63).
Philadelphia, The Free Library of, 13th and Locust Streets, Philadelphia, Pa. (51).
Pratt Institute Free Library, Ryerson St., Brooklyn, N. Y. (52).
Rhode Island Normal School, Providence, R. I. (60).
Russell Sage Foundation, Library of, 105 East 22d St., New York, N. Y. (60).
St. Agnes School, Albany, N. Y. (61).
St. Francis Xavier, The College of, Nostrand Avenue and Carroll St., Brooklyn, N. Y. (52).
St. Louis Public Library, Olive, 13th and 14th Sts., St. Louis, Mo. (64).
St. Olaf College Library, Northfield, Minn. (52).
Science Club Library, Earlham College, Earlham, Ind. (54).
Throop College of Technology, Pasadena, Cal. (66).
Toronto, University of, Library, H. H. Langton, Librarian, Toronto, Canada. (60).
Washington, University of, Library, Seattle, Wash. (55).
West Philadelphia High School for Girls, Library of, West Philadelphia, Pa. (64).
Wilmington Institute Free Library, Wilmington, Del. (52).

SUMMARY:

Corrected to June 22, 1915.

Patrons, 4; Fellows, 3881; Members, 4440; Total, 8325.

DECEASED MEMBERS.

(A list of deceased members of the Association, so far as known up to May, 1896, the time of publication of the Proceedings of the Springfield meeting (Vol. 44), is given in that volume. At the Buffalo meeting, the Council directed the Permanent Secretary to omit the printing of the full list of deceased members in the annual volumes and to print only the additions to the list. Since the publication of the list printed in the Minneapolis Proceedings (Vol. 62), notices have been received of the decease of the following members.)

Alexander, William De Witt, LL.D., Honolulu, Hawaii. (62). Died February, 1914.

Archinard, Paul E., M. D. New Orleans, La. (60).

Ayres, George Frederic, Ph. D., St. Charles, Mo. (58). Died October 23, 1913.

Baldwin, David Dwight, Haiku, Hawaii. (62). Died June 16, 1912.

BANGS, LEMUEL BOLTON, M. D., New York, N. Y. (36).

Barhydt, Mrs. P. Hackley, New York, N. Y. (57).

Barnhart, Arthur M., Chicago, Ill. (42). Died May 13, 1913.

Bayliss, Alfred, Macomb, Ill. (58). Died August 26, 1911.

Beal, William R., New York, N. Y. (57). Died June 4, 1912.

Beans, Mrs. T. Ellard, Berkeley, Cal. (65). Died November, 1914.

*Bessey, Charles Edwin, Ph. D., LL. D., Lincoln, Nebr. (21). Died March 2, 1915.

*Bickmore, Albert S., Ph. D., LL. D., New York, N. Y. (17). Died August 12, 1914.

Bilstein, Emma L., M. D., Baltimore, Md. (60). Died December 20, 1914.

*Blake, Francis, Auburndale, Mass. (23). Died January 19, 1913.

Blakeman, Mrs. Birdseye, New York, N. Y. (49).

Bolles, J. H., E. M., New York, N. Y. (58). Died 1913.

Bolster, Augustus S., M. D., Worcester, Mass. (50). Died September 3, 1912.

*Brackett, Cyrus Fogg, M. D., Princeton, N. J. (19). Died January 29, 1915.

*Bradford, Royal B., Rear Admiral, U. S. N., Washington, D. C. (31). Died August 4, 1914.

BRADLEY, ARTHUR C., Newport, N. H. (43). Died November 2, 1911.

Brainerd, Wolter Kirke, Blacksburg, Va. (62).

BRICE, JUDGE ALBERT G., New Orleans, La. (32). Died June 1, 1912.

Brodrick, Carlton Thayer, London, England. (57). Died May 7, 1915.

Brooks, Oliver K., Cleveland, Ohio. (63). Died September 14, 1914.

Brown, Hon. Addison, New York, N. Y. (57). Died April 9, 1913.

*Buckhout, William A., Sc. D., State College, Pa. (20). Died December 3, 1912.

*BUCKLEY, ERNEST ROBERTSON, Ph. D., Rolla, Mo. (52). Died July, 1913.
Burling, Rev. Lancaster C., West Chicago, Ill. (58). Died October 14, 1914.
*Busch, Frederick Carl, M. D., Buffalo, N. Y. (49).
Case, Zophar, M. D., Warrensburg, Mo. (58).
Chisholm, Hugh J., New York, N. Y. (50). Died July 8, 1912.
Church, Joseph B., Washington, D. C. (62).
*Christie, James, M. E., Philadelphia, Pa. (33). Died August, 1911.
Clark, William Brewster, M. D., New York, N.Y. (33). Died October, 1912.
*Claypole, Edith J., M. D., Berkeley, Cal. (46). Died March 27, 1915.
Clerc, Frank Laurent, Boulder, Colo. (50). Died 1915.
Coffeen, Hon. H. A., Sheridan, Wyoming. (51). Died December 8, 1912.
Coffey, Alexander, Baton Rouge, La. (64).
*COLBURN, RICHARD T., 120 Broadway, New York, N. Y. (31). Died December 9, 1913.
Cole, Aaron Hodgman, Chicago, Ill. (54).
Cook, Charles Delano, M. D., Brooklyn, N. Y. (25). Died September 5, 1912.
*Cox, Charles Finney, New York, N. Y. (43). Died January, 1912.
*Craig, John, Ithaca, N. Y. (41). Died August 10, 1912.
Curtis, Edward, M. D., New York, N. Y. (57). Died November 28, 1912.
Delafield, Joseph, New York, N. Y. (1). Died February 12, 1875.
Densmore, Emmet, M. D., Cassadaga, Fla. (54).
Dickson, Samuel, LL. D., 901 Clinton St., Philadelphia, Pa. (65). Died 1915.
Doughty, Mrs. Alla, Milford, Pa. (49). Died February 11, 1915.
Du Bois, Mrs. George W., Plainfield, N. J. (57). Died August 2, 1914.
*DUDLEY, WILLIAM LOFLAND, M. D., Vanderbilt University, Nashville, Tenn. (28). Died September 8, 1914.
*Duncan, Robert Kennedy, Sc. D., Pittsburgh, Pa. (57). Died February 18, 1914.
*Dyche, Lewis Lindsay, Pratt, Kansas. (51). Died January 20, 1915.
*Eastman, John Robie, Ph. D., Andover, N. H. (26). Died September 26, 1913.
Enfield, Charles, M. D., Jefferson, Iowa. (58). Died May 7, 1914.
Fairbanks, James R., M. D., Amsterdam, N. Y. (60). Died June 14, 1912.
Fischel, Washington E., M. D., St. Louis, Mo. (58). Died September 15, 1914.
Fleming, Dudley D., Jersey City, N. J. (50). Died April 10, 1914.
*Fletcher, Robert, M. D. Washington, D. C. (29). Died November 8, 1912.
*Forwood, Gen. William Henry, M. D., U. S. A., Washington, D. C. (52). Died May 11, 1914.
Freeman, Joseph Harlan, New York, N. Y. (63). Died January 27, 1913.
*Fritz, John, E. M., Bethlehem, Pa. (60). Died February 13, 1913.
FROTHINGHAM, MRS. FREDERICK, Fullerton, Cal. (31). Died July, 1913.
Fulda, Clemens, M. D., Brooklyn, N. Y. (57). Died February 26, 1914.
Furney, Elliott E., M. D., St. Petersburg, Fla. (60). Died April 14, 1914.

Gardner, Rev. Corliss B., Spencerport, N. Y. (29). Died December 7, 1912.

Gauss, Robert, Denver, Colo. (50).

*Gill, Theodore Nicholas, M. D., Ph. D., LL. D., Washington, D. C. (17). Died September 25, 1914.

Granger, Frank De Wolf, Washington, D. C. (62).

*Green, Bernard Richardson, Washington, D. C. (51). Died October 22, 1914.

Gregg, William Henry, M. D., St. Cloud, Fla. (49). Died June 21, 1915.

Hahn, Fritz Felix, Ph. D., Stuttgart, Germany. (63). Died September 8, 1914.

*Hallock, William, Ph. D., New York, N. Y. (40). Died May 21, 1913.

Hammar, Alfred G., Washington, D. C. (58). Died October 16, 1913.

Hanawalt, George P., M. D., Des Moines, Iowa. (58). Died June 19, 1912.

Harriot, Caroline, Camden, S. C. (58).

Harris, Turner M., Danville, Va. (61). Died November 8, 1913.

Harrod, Benjamin M., C. E., New Orleans, La. (60). Died September 7, 1912.

Havemeyer, W. F., New York, N. Y. (50). Died September 7, 1913.

*Haynes, Arthur Edwin, Sc. D., Minneapolis, Minn. (45). Died March 12, 1915.

*Haynes, Henry Williamson, Boston, Mass. (28). Died February 16, 1912.

Henderson, Royal L., Huntington, L. I., N. Y. (57). Died 1915.

Henry, Stewart L., M. D., New Orleans, La. (55). Died 1913.

Hermann, Ferdinand, New York, N. Y. (57). Died September 18, 1912.

Hinds, Franklin Allen, C. E., Watertown, N. Y. (57). Died August 23, 1913.

*Hiss, Philip Hanson, M. D., New York, N. Y. (49). Died February 27, 1913.

Holsinger, S. J., Meteor, Arizona. (58). Died August 8, 1911.

Holstein, George Wolf, Chevy Chase, D. C. (28). Died February 28, 1914.

Hooker, Charles Worcester, Mayaguez, P. R. (60). Died February 12, 1913.

Hooper, Franklin W., Brooklyn, N. Y. (43).

*Hough, Williston S., Washington, D. C. (58). Died September 18, 1912.

*Hovey, Rev. Horace Carter, D. D., Newburyport, Mass. (29). Died July 27, 1914.

Howe, John Morgan, M. D., New York, N. Y. (50). Died 1914.

*Howell, Edwin Eugene, Washington, D. C. (25). Died April, 1911.

*Huey, Edmund Burke, Ph. D., Connell, Wash. (58). Died December 30, 1913.

Hurd, Ethan Osborn, Cincinnati, Ohio. (30). Died March 24, 1913.

Ingham, William Armstrong, Philadelphia, Pa. (33). Died September 23, 1913.

*Jayne, Horace, M. D., Ph. D., Wallingford, Pa. (29). Died July 8, 1913.
*Jenks, Elisha Tucker, Middleboro, Mass. (22). Died January 10, 1913.
Jenne, Eldred Llewellyn, Washington, D. C. (58). Died May 10, 1912.
*Johnson, Otis Coe, Ann Arbor, Mich. (34). Died June, 1913.
Johnson, Thomas H., C. E., Pittsburgh, Pa. (60). Died 1915.
Jones, Dwight Arven, New York, N. Y. (57). Died December 7, 1913.
Jones, W. Ralph, Washington, D. C. (61). Died May 17, 1915.
Kern, Josiah Quincy, Ph. D., Washington, D. C. (40). Died November 28, 1913.
*King, Albert F. A., M. D., LL.D., Washington, D. C. (29). Died December 13, 1914.
*Kortright, Frederic Lawrence, Sc. D., Morgantown, W. Va. (55). Died August, 1914.
Lane, Horace Manley, M. D., Sao Paulo, Brazil, S. A. (46). Died October, 1912.
Langeloth, Jacob, Riverside, Conn. (57). Died August 14, 1914.
Lawford, Jasper Mauduit, Baltimore, Md. (58). Died December 13, 1913.
Lay, Henry Champlin, C. E., Telluride, Colo. (50). Died June 9, 1914.
*Le Fevre, Egbert, M. D., Sc. D., LL. D., New York, N. Y. (57). Died March 30, 1914.
*Le Gras, Gustave, College of the City of New York, New York, N. Y. (54).
*Lennon, William H., Brockport, N. Y. (31). Died March 9, 1913.
Lester, Charles Stanley, Washington, D. C. (62). Died March 17, 1913.
Lewis, George Smith, Springfield, Mass. (44). Died July 1, 1914.
Lindahl, Josua, Ph. D., Chicago, Ill. (55). Died April 18, 1912.
Lockwood, Homer N., Washington, D. C. (63). Died June 6, 1913.
*Loeb, Morris, Ph. D., New York, N. Y. (36). Died October 8, 1912.
*Longstreth, Morris, M. D., Philadelphia, Pa. (54). Died September 19, 1914.
Low, A. A., Brooklyn, N. Y. (43). Died September 25, 1912.
Lummis, William, New York, N. Y. (57). Died April 1, 1915.
Lyman, Henry Herbert, Montreal, Canada. (29). Died May 29, 1914.
*MacAlister, James, LL. D., Philadelphia, Pa. (54).
*McBurney, Charles, M. D., Stockbridge, Mass. (57). Died November 7, 1913.
*McCauley, Col. Charles A. H., U. S. A., Highland Park, Ill. (29). Died December 20, 1913.
McClelland, James H., M. D., Pittsburgh, Pa. (50). Died November 14, 1913.
McCraven, Bonner N., Houston, Texas. (60).
*McFarlane, Alexander, Sc. D., LL. D., Chatham, Ont., Can. (34). Died November, 1913.
*McGee, W. J., LL. D., Washington, D. C. (27). Died September 5, 1912.
*McMurtrie, William, Ph. D., New York, N. Y. (22). Died May 24, 1913.
McMurtry, Charles Wood, M. D., New York, N. Y. (57). Died November 25, 1914.

*Mallet, John William, M. D., Ph. D., LL. D., Charlottesville, Va. (52). Died November 7, 1912.

Manning, George Lincoln, Ph. D., Constantinople, Turkey. (62). Died December 11, 1914.

Marcou, John B., Princeton, Mass. (57). Died July 18, 1912.

*Marks, William Dennis, C. E., New York, N. Y. (50). Died January 6, 1914.

Marvin, Joseph B., M. D., LL. D., Louisville, Ky. (51). Died September 2, 1913.

Maynard, Washburn, Rear Admiral, U. S. N., Narragansett Pier, R. I. (33). Died October 24, 1913.

Mead, Charles Searing, Ph. D., Suffield, Conn. (52). Died January 17, 1914.

Meek, Seth Eugene, Ph. D., Chicago, Ill. (58). Died June 6, 1914.

Megrath, William A., New York, N. Y. (62). Died May 23, 1915.

Merritt, David Spencer, C. E. Tarrytown, N. Y. (58).

*Messenger, Hiram John, Ph. D., Hartford, Conn. (54). Died December 15, 1913.

Miller, Eli P., New York, N. Y. (57). Died January 13, 1913.

Miller, James Blaine, Washington, D. C. (63). Died May 7, 1915.

*Mills, Wesley, M. D., London, England. (31). Died February 14, 1915.

Miner, Charles A., C. E., Washington, D. C. (58). Died 1912.

*Minot, Charles Sedgwick, M. D., Se. D., LL. D., Boston, Mass. (28). Died November 19,1914.

*Morris, Edward Lyman, Brooklyn, N. Y. (52). Died September 14, 1913.

Morrison, Gilbert B., St. Louis, Mo. (48). Died February 6, 1913.

*Muir, John, LL. D., Martinez, Cal. (22). Died December 24, 1914.

Mumford, James Gregory, M. D., Clifton Springs, N. Y. (62). Died October 18, 1914.

Nelson, Wolfred, New York, N. Y. (35). Died January 15, 1913.

Nelson, William, Paterson, N. J. (42). Died August 10, 1914.

Newkirk, Johnson, Ridley Park, Pa. (58).

Noble, Alfred, C. E., New York, N. Y. (57). Died April 20, 1914.

Ogden, Robert Curtis, LL. D., New York, N. Y. (57). Died August 6, 1913.

*Oldberg, Oscar, Chicago, Ill. (54). Died February 27, 1913.

*Oliphant, F. H., Beaver, Pa. (51). Died April, 1914.

Paddock, Eugene H., New York, N. Y. (57). Died December 9, 1912.

*Park, Roswell, M. D., LL. D., Buffalo, N. Y. (45). Died February 15, 1914.

Parsons, John Edward, New York, N. Y. (36). Died January 16, 1914.

*Peabody, George Livingston, M. D., Newport, R. I. (57). Died October 30, 1914.

Pearson, Fred Stark, C. E., Kingston Hill, Surrey, Eng. (50). Died May 7, 1915.

Peck, Mrs. John Hudson, Troy, N. Y. (28). Died May 26, 1914.

Peet, Rev. Stephen Denison, Ph. D., Salem, Mass. (58).

*Peirce, Benjamin Osgood, Ph. D., Sc. D., Cambridge, Mass. (47). Died January 14, 1914.

Perry, Charles J., New York, N. Y. (57). Died July 13, 1913.

*Pettegrew, David Lyman, Worcester, Mass. (44). Died January 14, 1914.

Pettit, James Harvey, Ph. D., Urbana, Ill. (62). Died December 30, 1914.

*Phillips, Andrew Wheeler, Ph. D., New Haven, Conn. (24). Died January 20, 1915.

Pickett, Thomas E., M. D., Maysville, Ky. (25). Died September 3, 1913.

*Pierce, Arthur Henry, Ph. D., Northampton, Mass. (60). Died February 20, 1914.

Pinkus, Harry, Dallas, Texas. (64). Died August 27, 1914.

Pilling, John W., Washington, D. C. (40). Died March 2, 1914.

Planten, John R., Brooklyn, N. Y. (57). Died January 10, 1913.

Pomeroy, E. H., M. D., Bradentown, Fla. (58). Died June 22, 1913.

Post, Martin Hayward, M. D., St. Louis, Mo. (60). Died September 1, 1914.

Preece, Sir William, E. E., London, England. (60). Died November 6, 1913.

*Prentiss, Robert Woodworth, New Brunswick, N. J. (40). Died April 5, 1913.

Preston, Edmund B., San Francisco, Cal. (65).

QUINAN, WILLIAM RUSSELL, Cape Colony, South Africa. (56). Died August 15, 1910.

Ramsperger, Gustav, New York, N. Y. (57). Died May 6, 1912.

Reid, Hon. Whitelaw, New York, N. Y. (50). Died December 15, 1912.

Reuter, Enzio Rafael, Ph. D., Helsingfors, Finland, Europe. (58). Died September 2, 1913.

Reynolds, George B., M. D., Baltimore, Md. (60). Died May 1, 1915.

Rheem, Clarence B., Washington, D. C. (63). Died April 9, 1913.

Richardson, Maurice H., M. D., Boston, Mass. (60). Died July 31, 1912.

Risk, J. Boyd, M. D., Summit, N. J. (60). Died 1914.

*Robinson, Charles Budd, Ph. D., Manila, P. I. (58). Died December 23, 1913.

Robinson, Henry Smith, M. E., Andover, Mass. (60). Died April 4, 1912.

*Robinson, Otis Hall, Ph. D., Rochester, N. Y. (23).

Robinson, Samuel Adams, M. D., Portland, Oregon. (51). Died October 9, 1913.

Rosenthal, Edwin, M. D., Philadelphia, Pa. (51). Died April 22, 1912.

*Salmon, Daniel Elmer, M. D., Butte, Montana. (31). Died September 2, 1914.

Saunders, Dr. William, C. M. G., London, Ont., Canada. (17). Died September 13, 1914.
Schenck, Charles C., Ph. D., Baltimore, Md. (51).
Schniewind, F., Ph. D., New York, N. Y. (57). Died March 12, 1913.
*Schoney, Lazarus, Ph. D., M. D., Coney Island, N. Y. (29). Died February 17, 1914.
*Scovell, Melville Amasa, Ph. D., Lexington, Ky. (35). Died August 15, 1912.
*Scull, Miss Sarah A., Smethport, Pa. (40). February 12, 1913.
Shaw, Henry Lyman, M. D., Boston, Mass. (51). Died April, 1911.
Smith, Eugene, C. E., Hoboken, N. J. (50). Died December 24, 1912.
Sommer, Richard E. W., Milwaukee, Wis. (60).
*Soule, William, Ph. D., Alliance, Ohio. (33). Died April 18, 1914.
*Speyers, Clarence Livingston, Pittsburgh, Pa. (50).
Spofford, Paul N., New York, N. Y. (36). Died September, 1912.
Spohn, Arthur Edward, M. D., Corpus Christi, Texas. (50). Died May 5, 1913.
*Steel, Warren Merrill, Amherst, N. S., Canada. (57). Died August 19, 1910.
Steinbach, Lewis W., M. D., Philadelphia, Pa. (51).
Stevens, Horace J., E. M., Houghton, Mich. (60).
*Stokes, Anson Phelps, New York, N. Y. (50). Died June 28, 1913.
Strong, Sylvester E., M. D., Saratoga Springs, N. Y. (60). Died March 17, 1913.
*Stubbs, Joseph Edward, D. D., LL. D., Reno, Nevada. (54). Died May, 1914.
Sundberg, John C., M. D., Seattle, Wash. (60). Died February, 1913.
*Sutton, William John, Victoria, B. C., Can. (50). Died July 1, 1914.
*Taylor, Frederick Winslow, M. E., Sc. D., Philadelphia, Pa. (60). Died March 21, 1914.
Taylor, George W., Nanaimo, B. C., Can. (60). Died September, 1912.
Taylor, John J., M. D., Philadelphia, Pa. (61). Died August 1, 1912.
Thomas, B. F., Chattanooga, Tenn. (63). Died June, 1914.
Thompson, James L., M. D., Indianapolis, Ind. (39). Died 1913.
*Thruston, Gates Phillips, Nashville, Tenn. (38). Died November 8, 1913.
Tibbits, Henry S., Chicago, Ill. (61).
*True, Frederick William, LL. D., Washington, D. C. (28). Died June 25, 1914.
Trush, Jacob, M. D., Cincinnati, Ohio. (60). Died 1915.
*Uhler, Philip Reese, LL. D., Baltimore, Md. (19). Died October 21, 1913.
*Upton, Winslow, Sc. D., Providence, R. I. (29). Died January 8, 1914.
Valle, Felipe, Tacubaya, D. F., Mexico. (54). Died September, 1910.
*Van Vleck, John Monroe, LL. D., Middletown, Conn. (23). Died November 4, 1912.
Vinal, W. Irving, Washington, D. C. (40). Died April 5, 1914.

Von Schmid, J. O., New York, N. Y. (57). Died November 3, 1913.
*Wadsworth, Oliver F., M. D., Boston, Mass. (52). Died 1911.
Ward, Charles, Charleston, W. Va. (57). Died January 17, 1915.
*Ward, Lester Frank, LL.D., Providence, R. I. (26). Died April 18, 1913.
*Ware, William R., Milton, Mass. (36). Died June 9, 1915.
Washington, William de Hertburne, C. E., New York, N. Y. (60). Died August 30, 1914.
Watson, Rev. John Henry, New York, N. Y. (57). Died October 31, 1913.
*Webb, John Burkitt, C. E., Hoboken, N. J. (31). Died August 6, 1913.
*Weber, Henry Adam, Ph.D., Columbus, Ohio. (35). Died June 14, 1912.
Weber, Leonard, M. D., New York, N. Y. (57). Died March 1, 1912.
*Wendell, Oliver Clinton, Sc. D., Cambridge, Mass. (56). Died November 6, 1912.
*WESTINGHOUSE, GEORGE, Pittsburgh, Pa. (50). Died March 12, 1914.
*Wheeler, Henry Lord, Ph. D., New Haven, Conn. (50). Died October 30, 1914.
White, Charles Henry, U. S. N., Center Sandwich, N. H. (34). Died July 25, 1914.
*Williams, Benezette, Chicago, Ill. (33). Died June 22, 1914.
*Williams, Leonard Worcester, Ph. D., Boston, Mass. (52). Died September 26, 1912.
Williams, Percy Frederic, Auburn, Ala. (61). Died December, 1912.
*Winchell, Newton Horace, Minneapolis, Minn. (19). Died May 2, 1914.
*Wood, Stuart, Ph. D., Philadelphia, Pa. (51). Died March 2, 1914.
Woodbury, Frederick E., E. M., Milwaukee, Wis. (60). Died January 21, 1914.
Woodruff, Charles Edward, Lieut.-Col., U. S. A., New Rochelle, N. Y. (54). Died June 13, 1915.
*Woodward, Calvin Milton, Ph. D., LL. D., St. Louis, Mo. (32). Died January 12, 1914.

THE SIXTY-THIRD MEETING

WASHINGTON, D. C.

December 27 to 30, 1911.

PRESIDENTIAL ADDRESS.

For address of retiring President ALBERT A. MICHELSON, delivered at the Washington meeting, see *Science*, N. S. Vol. XXXIV, No. 887, December 29, 1911, pp.893–902. Title: Recent Progress in Spectroscopic Methods.

OFFICERS OF SECTION A.

Vice-President and Chairman of the Section.
EDWIN B. FROST, Williams Bay.

Secretary.
GEORGE A. MILLER, Urbana.

Member of Council.
EDGAR O. LOVETT, Houston.

Sectional Committee.
ELIAKIM H. MOORE, Vice-President, 1911; EDWIN B. FROST, Vice-President, 1912; G. A. MILLER, Secretary; F. R. MOULTON, 1 year; E. W. BROWN, 2 years; WINSLOW UPTON, 3 years; E. R. SMITH, 4 years; C. S. HOWE, 5 years.

Member of General Committee.
H. T. EDDY, Minneapolis.

For list of papers presented before this Section at the Washington meeting, see report of Secretary of Section A in *Science*, N. S. Vol. XXXV, No. 893, February 9, 1912, pp. 220–221.

OFFICERS OF SECTION B.

Vice-President and Chairman of the Section.
ROBERT A. MILLIKAN, Chicago.

Secretary.
ALFRED D. COLE, Columbus.

Member of Council.
O. M. STEWART, Columbia.

Sectional Committee.
EDWARD B. ROSA, Vice-President, 1911; ROBERT A. MILLIKAN, Vice-President, 1912; A. D. COLE, Secretary; K. E. GUTHE, 1 year; A. P. CARMAN, 2 years; G. F. HULL, 3 years; E. L. NICHOLS, 4 years; ANTHONY ZELENY, 5 years. *Ex officio:* W. F. MAGIE, President, American Physical Society; ERNEST MERRITT, Secretary, American Physical Society.

Member of General Committee.
G. W. STEWART, Iowa City.

For list of papers presented before this Section at the Washington meeting, see report of Secretary of Section B in *Science*, N. S. Vol. XXXV, No. 900, March 29, 1912, pp. 510–516.

For address of retiring Vice-President EDWARD B. ROSA, see *Science*, same volume, No. 888, January 5, 1912, pp. 8–19. Title: The Work of the Electrical Division of the Bureau of Standards.

OFFICERS OF SECTION C.

Vice-President and Chairman of the Section.
FRANK K. CAMERON, Washington.

Secretary.
C. H. HERTY, Chapel Hill.

Member of Council.
WALTER P. BRADLEY, Middletown.

Sectional Committee.
G. B. FRANKFORTER, Vice-President, 1911; FRANK K. CAMERON, Vice-President, 1912; CHARLES H. HERTY, Secretary; W. J. GIES, 1 year; FRANK K. CAMERON, 2 years; W. D. BANCROFT, 3 years; W. L. DUDLEY,* 4 years; C. L. ALSBERG, 5 years. *Ex officio:* ALEXANDER SMITH, President, American Chemical Society; C. L. PARSONS, Secretary, American Chemical Society.

Member of General Committee.
C. F. BURGESS.

For list of papers presented before the joint session of this Section with the American Chemical Society at the Washington meeting, see reports of Secretary in *Science*, N. S. Vol. XXXV, No. 889, January 12, 1912, pp.79–80; No. 897, March 8, 1912, pp. 378–396, and No. 898, March 15, 1912, pp. 422–435.

For address of retiring Vice-President GEORGE B. FRANKFORTER, see *Science*, Vol. XXXVI, No. 922, August 30, 1912, pp. 257–263. Title: The Resins and their Chemical Relations to the Terpenes.

*Deceased.

OFFICERS OF SECTION D.

Vice-President and Chairman of the Section.
CHARLES S. HOWE, Cleveland.

Secretary.
G. W. BISSELL, East Lansing.

Member of Council.
A. F. ZAHM, Washington.

Sectional Committee.
A. L. ROTCH*, Vice-President, 1911; C. S. HOWE, Vice-President, 1912; G. W. BISSELL, Secretary; J. E. BOYD, 1 year; A. H. BLANCHARD, 2 years; C. M. WOODWARD,* 3 years; W. J. HUMPHREYS, 4 years; G. O. SQUIER, 5 years.

Member of General Committee.
F. O. MARVIN, Lawrence.

For list of papers presented before this Section at the Washington meeting, see report of Secretary of Section D in *Science*, N. S. Vol. XXXV, No. 901, April 5, 1912, pp. 547–553.

For address of retiring Vice-President A. LAWRENCE ROTCH,* see *Science*, same volume, No. 889, January 12, 1912, pp. 41–46. Title: Aerial Engineering.

*Deceased.

OFFICERS OF SECTION E.

Vice-President and Chairman of the Section.
BOHUMIL SHIMEK, Iowa City.

Secretary.
F. P. GULLIVER, Norwich.

Member of Council.
A. P. BRIGHAM, Hamilton.

Sectional Committee.
CHRISTOPHER W. HALL,* 1911; BOHUMIL SHIMEK, 1912; F. P. GULLIVER, Secretary; E. O. HOVEY, Preceding Secretary; J. B. WOODWORTH, 1 year; F. B. TAYLOR, 2 years; G. K. GILBERT, 3 years; C. W. HAYES, 4 years; A. G. LEONARD, 5 years. *Ex officio:* W. M. DAVIS, President, G. S. A.; E. O. HOVEY, Secretary, G. S. A.; R. S. TARR,* President, A. A. G.; A. P. BRIGHAM, Secretary, A. A. G.

Member of General Committee.
GEORGE OTIS SMITH, Washington.

This Section presented no program at this meeting on account of the presence of the Geological Society of America and the Association of American Geographers.

(*Owing to the death of Vice-President Hall there was no vice-presidential address before this Section at the Washington meeting.*)

*Deceased.

OFFICERS OF SECTION F.

Vice-President and Chairman of the Section.
H. F. NACHTRIEB, Minneapolis.

Secretary.
MAURICE A. BIGELOW, New York.

Member of Council.
W. A. LOCY, Evanston.

Sectional Committee.
JACOB REIGHARD, Vice-President, 1911; H. F. NACHTRIEB, Vice-President, 1912; M. A. BIGELOW, Secretary; A. L. TREADWELL, 1 year; C. C. NUTTING, 2 years; EDWIN LINTON, 3 years; H. F. NACHTRIEB, 4 years; HENRY B. WARD, 5 years.

Member of General Committee.
MORTON J. ELROD, Missoula.

For list of papers presented before the sectional meeting and the joint session of this Section with the American Psychological Association at the Washington meeting, see report of Secretary in *Science*, N. S. Vol. XXXV, No. 892, February 2, 1912, pp. 191–193.

(*Owing to the absence of retiring Vice-President Jacob Reighard, there was no vice-presidential address delivered before this Section at this meeting.*)

OFFICERS OF SECTION G.

Vice-President and Chairman of the Section.
F. C. NEWCOMBE, Ann Arbor.

Secretary.
HENRY C. COWLES, Chicago.

Member of Council.
F. C. NEWCOMBE, Ann Arbor.

Sectional Committee.
R. A. HARPER, Vice-President, 1911; F. C. NEWCOMBE, Vice-President, 1912; HENRY C. COWLES, Secretary; F. E. LLOYD, Preceding Secretary; W. TRELEASE, 1 year; R. A. HARPER, 2 years; D. T. MACDOUGAL, 3 years; H. M. RICHARDS, 4 years; L. H. PAMMEL, 5 years. *Ex officio:* WILLIAM G. FARLOW, President, Botanical Society of America; GEORGE T. MOORE, Secretary, Botanical Society of America; A. D. SELBY, President, American Phytopathological Society; C. L. SHEAR, Secretary, American Phytopathological Society.

Member of General Committee.
CHARLES E. ALLEN, Madison.

For address of retiring Vice-President R. A. HARPER, see *Science*, N. S. Vol. XXXV, No. 911, June 14, 1912, pp. 909–923. Title: Some Current Conceptions of the Germ Plasm.

OFFICERS OF SECTION H.

Vice-President and Chairman of the Section.
GEORGE T. LADD, New Haven.

Secretary.
GEORGE GRANT MACCURDY, New Haven.

Member of Council.
FRANZ BOAS, New York.

Sectional Committee.
ROLAND B. DIXON, Vice-President, 1911; GEORGE T. LADD, Vice-President, 1912; GEORGE GRANT MACCURDY, Secretary; W. H. HOLMES, 1 year; R. B. DIXON, 2 years; G. A. DORSEY, 3 years; G. B. GORDON, 4 years; ————, 5 years. *Ex officio:* CARL E. SEASHORE, President, American Psychological Association; W. VAN DYKE BINGHAM, Secretary, American Psychological Association; H. M. BELDEN, President, American Folk-Lore Society; CHARLES PEABODY, Secretary, American Folk-Lore Society.

Member of General Committee.
CHARLES PEABODY, Cambridge.

For list of papers presented before this Section at the Washington meeting, see report of Secretary of Section H in *Science*, N. S. Vol. XXXV, No. 904, April 26, 1912, pp. 665–676.

For address of retiring Vice-President ROLAND B. DIXON, see *Science*, N. S. Vol. XXXV, No. 889, January 12, 1912, pp. 46–55. Title: The Independence of the Culture of the American Indian.

OFFICERS OF SECTION I.

Vice-President and Chairman of the Section.
J. PEASE NORTON, New Haven.

Secretary.
SEYMOUR C. LOOMIS, New Haven.

Member of Council.
JOHN FRANKLIN CROWELL, New York.

Sectional Committee.
THEODORE E. BURTON, Vice-President, 1911; J. PEASE NORTON, Vice-President, 1912; SEYMOUR C. LOOMIS, Secretary; FRED C. CROXTON, Preceding Secretary; W. R. LAZENBY, 1 year; CHARLES A. CONANT, 2 years; IRVING FISHER, 3 years; JOHN F. CROWELL, 4 years; JOHN B. CLARK, 5 years.

Member of General Committee.
WILLIAM R. LAZENBY, Columbus.

For list of papers presented before this Section at the Washington meeting, see report of Secretary of Section I in *Science*, N. S. Vol. XXXV, No. 892, February 2, 1912, pp. 197–199.

For address of retiring Vice-President THEODORE E. BURTON, see *Science*, same volume, No. 891, January 26, 1912, pp. 129–140. Title: The Cause of High Prices.

OFFICERS OF SECTION K.

Vice-President and Chairman of the Section.
WILLIAM T. PORTER, Boston.

Secretary.
GEORGE T. KEMP, Baltimore.

Member of Council.
S. J. MELTZER, New York.

Sectional Committee.
FREDERICK G. NOVY, Vice-President, 1911; WILLIAM T. PORTER, Vice-President, 1912; GEORGE T. KEMP, Secretary; T. H. SOLLMANN, 1 year; ELIAS P. LYON, 2 years; WM. J. GIES, 3 years; WM. H. HOWELL, 4 years; THOMAS G. LEE, 5 years.

Member of General Committee.
CH. WARDELL STILES, Washington.

For address of retiring Vice-President, FREDERICK G. NOVY, see *Science*, N. S. Vol. XXXVI, No. 914, July 5, 1912, pp. 1–10. Title: Disease Carriers.

OFFICERS OF SECTION L.

Vice-President and Chairman of the Section.
EDWARD L. THORNDIKE, New York.

Secretary.
C. RIBORG MANN, Chicago.

Member of the Council.
JAMES E. RUSSELL, New York.

Sectional Committee.
A. ROSS HILL, Vice-President, 1911; EDWARD L. THORNDIKE, Vice-President, 1912; C. R. MANN, Secretary; C. M. WOODWARD,* 1 year; C. H. JUDD, 2 years; E. E. BROWN, 3 years; JOHN DEWEY, 4 years; W. C. BAGLEY, 5 years.

Member of General Committee.
EDWARD C. ELLIOTT, Madison.

*Deceased.

EXECUTIVE PROCEEDINGS

WASHINGTON MEETING

December 27 to 30, 1911.

EXECUTIVE PROCEEDINGS.

Washington Meeting.

REPORT OF GENERAL SECRETARY.

The Sixty-third meeting of the American Association for the Advancement of Science was held at Washington, D. C., December 27 to 30, 1911, under the presidency of Dr. Charles E. Bessey, of the University of Nebraska. The meeting was the most successful in the history of the association, both from the point of attendance and from the enthusiasm shown. Beautiful weather prevailed throughout and the people of Washington, including the many scientific men connected with the various governmental bureaus, did everything in their power to make the stay of the visitors pleasant and profitable. The total registration of members of the association was 1,306, whereas the largest previous registration was that at the third Boston meeting, when the total was 1,140. A conservative estimate of the actual number of members of the association present in Washington would place the number at 1,800 and there were doubtless as many as a thousand more present who are members of affiliated societies and not members of the association itself. The following is a list of affiliated and other scientific societies which met in Washington at the same time:

Astronomical and Astrophysical Society of America.
American Physical Society.
American Society of Biological Chemists.
American Chemical Society.
Association of American Geographers.
Geological Society of America.
Paleontological Society of America.
American Association of Economic Entomologists.
Entomological Society of America.
American Breeders' Association.
American Psychological Association.
Southern Society for Philosophy and Psychology.
Botanical Society of America.
American Fern Society.
Society for Horticultural Science.
American Microscopical Society.
American Nature-Study Society.
American Phytopathological Society.
Sullivant Moss Society.
American Anthropological Association.
American Folk-Lore Society.
American Civic Alliance.
American Economic Association.

American Association for Labor Legislation.
American Sociological Society.
American Statistical Association.
American Home Economics Association.
American Physiological Association.
Society of American Bacteriologists.
American Federation of Teachers of the Mathematical and Natural Sciences.
Society of the Sigma Xi.

The opening reception to members of the association and affiliated and visiting societies was given at the new building of the National Museum from 8 to 9 P. M. of December 27. At the close of the reception, the association held its first general meeting in the assembly hall of the Museum. The meeting was called to order by the retiring president, Dr. A. A. Michelson, who introduced the president-elect, Dr. Charles E. Bessey, who in turn introduced the President of the United States, Mr. William H. Taft, who delivered the following address of welcome:

I had a Christmas present a day or two ago. It was a new Encyclopædia Britannica. On the first page of it—I suppose that was the reason why I got it—there was a dedication to King George V. and William Howard Taft, president of the United States. Standing as I do in the presence of this live encyclopædia of all knowledge, I have the same feeling of awe now that I had when I saw that name before all the knowledge of the world. At first I thought somebody else ought to speak before me, but I am glad to come first, because as a welcomer it is not necessary for me to advance a single scientific proposition. I am here only as the Mayor of Washington to advise you that you have the freedom of the city and that it is a beautiful city which you can not stay too long in. Indeed the longer you stay, the longer you want to stay.

We have centers of science here. We have the Carnegie Foundation for Scientific Research, and one of these days I am going to read the things that come from that research, when I have plenty of time. Then, we have a number of bureaus that I presume would be called bureaus of applied science. I don't refer to the science of government—that is altogether too inexact a science for an assembly like this—but I mean there are certain bureaus connected with this government that I hope present matters of interest to so learned and scientific a body as this. There are some of them that I would like to get my hands on and change, but there are limitations upon the power of the president of the United States and he can not do everything he would like. If I could change the Naval Observatory into a bureau, with a scientific professor at the head of it, I would do it to-morrow, but there are conservative gentlemen connected with the coordinate branches of the government that prevent.

Then, we have the Geological Survey and the Bureau of Chemistry and the Bureau of Entomology and the Bureau of Standards. I have no doubt there is a much longer list, which if I had only committed it to memory, I would give here for your studious consideration. But it is enough of a congeries of scientific nerves to justify a meeting of all the scientific bodies of the country here, and I hope that, as the government goes on and as congress becomes more liberal, those centers of scientific research, as many of them ought to be, will be improved so as to commend them to those of you who have theories as to what they ought to be under the auspices and with the necessary money which the United States can devote, if it will, to useful scientific research.

There is only one other remark which I wish to make to-night. In thinking over what there was between this audience and me, of any possible common knowledge, it occurred to me it was some experience in the exercise of the judicial faculty—that is, in your lives and in your branches of study and action, the search for truth without regard to the result you reach. That is what makes the administration of justice, what makes the work upon the bench so delightful—the absolute indifference to a result, with the weighing of the reasons pro and con and the final solution in accordance with eternal justice. The scientific man in his search for the truth of nature, in which he could wrest a rule from nature—a law—and in which he studies each individual instance to find that law, or, if he thinks he has found it, to make the instance square with the law, exercises the judicial faculty in a different branch, but with the same necessity for absolute adherence to truth in order that a useful result may be reached—no forcing of a theory, no construction of individual instances in order to make a theory, if those instances really don't fit into it; and if I know the weakness of the scientist or the temptation of a scientist, it is in reference to just such cases as that. Just as the judge upon the bench, with a weakness for deciding a case in advance, because he has heard one or two things in it, and then tries to square everything else that comes along to his original theory, so, too, with you. I have no doubt that what you have to struggle against is too quick recognition of something that leads you to discover a law. Subsequent study changes your mind about it and then you have to go back and build up a new theory or law, slowly, deliberately, but with strict adherence to truth and a desire to find the truth until you finally conquer and reach a conclusion that will bear the test of every instance.

Dr. Walcott, Secretary of the Smithsonian Institution, who was to have given the second address of welcome, was absent through illness.

President Bessey responded to the address of welcome, as follows:

Mr. President:

The members of the American Association for the Advancement of Science feel it to be a great honor to be welcomed to the capital of the country by its foremost citizen, the president of the United States.

In theory, at least, scientific men are like the men who frequent this city. They are here for a particular purpose. They work for the good of the community. They are not working for their own advancement. They are servants of the people. In all these things we are like the men who occupy legislative, judicial or executive positions in this capital city.

But, Mr. President, you will permit me to suggest, without unseemly egotism, that in the coming of this body of scientific men to the capital, we represent more than an invasion of an equal number of congressmen, judges and executive officers. If I may be allowed to say it, the latter represent present problems and needs, and deal only with the things of immediate importance. *They* are time servers often, or may be mostly in the better sense, but still servers of the present time. And no one will question the usefulness of the man who honestly and conscientiously serves his day and generation—his time.

To the man of science, the past, the present, the future, are spread out as the great panorama of nature on which are sketched the successive pictures of an eternity of change and evolution, whose beginning we do not know, and of whose end we have no conception. The politician works wholly in the present and for the present: the scientist's work carries him back through eons of duration to the dawn of eternity and forward through countless millenniums to a possible twilight time of the universe.

I am not saying that all scientists live in the eternities in this high fashion, nor am I denying that there are great minded statesmen who live

in a present which is illumined by the past, and beckoned by the future. No, I would not dare to claim so much for all who enroll in the ranks of science, and certainly we know of some men in public life whose breadth of view on the political questions of the day entitles them to the distinguished name of statesmen.

So, I stand here representing a body of men, in some respects like those who are visibly engaged in conducting the government of the country, but in other respects constituting a very different body, and it is on their behalf that I thank you sincerely for the cordial welcome you have extended to us.

But, while I speak, I am reminded that in these later years you have taken into the service of the government many hundreds of trained scientific men, and that these men by their labors are helping you to solve some of the most difficult problems that the government has had to face. With these men we, who assemble here today, have close ties and cordial sympathies. We remember that, although in government service, they are still scientific men, and that the problems you have placed before them are scientific problems. And we are anxious, Mr. President, that these brothers of ours shall have full opportunity for doing well the work put before them. We are glad that by the establishment of an enlightened system of laws controlling the civil service this body of scientists has been lifted out of the reach of petty personal politics. That has made it possible for the government to secure the services of so many men of the highest scientific attainments. It now remains for you, Mr. President, as the executive head over all the scientific bureaus, to see that the proper atmosphere is maintained in every bureau, and in every division where scientific men work. It has been hinted sometimes that, with all that has been done so well to keep the outside politician away from the scientist's laboratory, we have not wholly succeeded in keeping the inside politician from creating an atmosphere quite inimical to scientific work. For it must be remembered that scientific work is not all a digging out of facts as is so often supposed, but that the best of it calls for comparison, and reflection, and the careful drawing of conclusions, and this takes much time, and mental leisure, and a freedom from petty irritations.

If the men who have to solve the scientific problems of the government are to discharge their duties with the highest efficiency, they must have good appliances in the way of laboratories, experimental stations, apparatus, reference libraries and such other material necessities as pertain to the particular work they have in hand, but more than these, far more I may say, is the necessity for a congenial and sympathetic environment. And rumor has it that this helpful environment is not always present in the splendidly equipped divisions where it may be that the expert scientist is hampered and distracted by the necessity of making preliminary plans and preliminary projects, and final plans and final projects, and reports of progress, and preliminary reports, and final reports, and supplementary reports, to officials who neither understand the nature of the problems nor the scientific method of their study.

We shall agree that these things ought not to be, and I am assured by the interest you have taken in the scientific work of the country at large, and especially by what you have done here in the capital that you will gladly help to free the government scientists from such trammels as may have sometimes hedged them in. In these days when we are applying "scientific management" to business and the industries, certainly we ought to have a scientific management of our bureaus of science.

Mr. President, I regard it as a great honor to have had the privilege of responding to the welcome extended to this Association, and doubly so when that welcome has been given by you, whom we all delight to honor, as the president of this good country of ours.

The annual address was then delivered by the retiring president, Dr. A. A. Michelson, on "Recent Progress in Spectroscopic Methods," after which the meeting was adjourned. The addresses by retiring vice-presidents of sections were made as follows:

WEDNESDAY AFTERNOON.

Vice-president Frankforter before the Section of Chemistry. Title: The Resins and their Chemical Relations to the Terpenes.

Vice-president Harper before the Section of Botany. Title: Some Current Conceptions of the Germ Plasm.

THURSDAY AFTERNOON.

Vice-president Rosa before the Section of Physics. Title: Work of the Electrical Division of the Bureau of Standards.

Vice-president Rotch before the Section of Mechanical Science and Engineering. Title: Aerial Engineering.

Vice-president Hill before the Section of Education. Title: The Teaching of General Courses in Science.

FRIDAY MORNING.

Vice-president Moore before the Section of Mathematics and Astronomy. Title: On the Foundation of the Theory of Linear Integral Equations.

FRIDAY AFTERNOON.

Vice-president Dixon before the Section of Anthropology and Psychology. Title: The Independence of the Culture of the American Indian.

Vice-president Novy before the Section of Physiology and Experimental Medicine. Title: Disease Carriers.

Vice-president Burton before the Section of Social and Economic Science. Title: The Cause of High Prices.

Among other addresses which were given and meetings for general discussion which were held, the following may be mentioned:

On Thursday morning, there was a symposium on "The Ether" before the American Physical Society, which was led by Professor A. A. Michelson, who was followed by Professor A. G. Webster and others.

Dr. H. P. Talbot, chairman of the Division of Physical and Inorganic Chemistry, delivered an address on Wednesday afternoon on the "Privileges and Responsibility of the Chemical Analyst."

On Thursday evening, the president of the American Chemical Society, Dr. Alexander Smith, addressed the society on the subject, "An Early Physical Chemist." The address was followed by a lecture by Frank B. Kenrick and H. E. Howe, on "Lantern Experiments on Reactions in Heterogeneous Systems."

A symposium on "Drug Assay" was held on Friday morning by the Division of Pharmaceutical Chemistry, and one on "Mineral Wastes and Conservations" was held by the Division of Industrial Chemists and Chemical Engineers.

President R. S. Tarr, of the Association of American Geographers, gave his presidential address on Friday morning, on "The Glaciers and Glaciation of Alaska."

The Paleontological Society of America held a symposium Friday morning, on "Ten Years' Progress in Vertebrate Paleontology."

A symposium on "Instinct and Intelligence" was held on Wednesday morning by the American Psychological Association.

The subject of the address of President S. I. Franz of the Southern Society for Philosophy and Psychology, given on Thursday afternoon, was "New Phrenology" and that of President Seashore, of the American Psychological Association, given on Thursday evening, was "The Measure of a Singer." Professor J. H. Comstock addressed the Entomological Society of America on Wednesday evening on "Some Biological Features of Spiders."

The Section of Botany held a symposium on "Soils" on Wednesday afternoon, and the Botanical Society of America held a symposium on Thursday afternoon on "Modern Aspects of Paleobotany" after the retiring president, Dr. E. F. Smith, had delivered his presidential address on "Some Aspects of the Relationship of the Crowngall Disease to Human Cancer."

Dr. H. M. Belden gave his presidential address, on "Folk Poetry in America," on Thursday morning, before a joint session of Section H and the American Folk-Lore Society. In the afternoon, the joint session was in charge of the American Anthropological Association and a symposium was held on "Environment and Culture."

Presidential addresses by Dr. F. H. Giddings, president of the American Sociological Society, on the "Quality of Civilization" and by Dr. H. W. Farnum, president of the American Economic Association, on "The Economic Utilization of History," were given before a joint meeting of the two societies, on Wednesday evening.

On Friday afternoon, at a joint meeting of Section K with the American Physiological Society and the Society of American Bacteriologists, a symposium was held on "Acapnia and Shock."

The council of the American Association met daily, and the following are the chief items of business transacted:

Eighty-seven new members were elected into the association, and the following were elected fellows of the association: Frank H. Bailey, Fred Asa Barnes, John Fritz, A. A. Hamerschlag, Truman Michelson, F. Paul Anderson, Gardner Chace Anthony, Henry Sturgis Drinker, Louis Doremus Huntoon, William Christian Hood, Clement Ross Jones, John Price Jackson, James W. Lawrence, Edwin Hoyt Lockwood, Chas. E. Lucke, Francis C. Shenehon, Frederick W. Sperr, James T. Beard, Wm. J. Sharwood, Lulu Pace, Pliny E. Goddard, George Byron Gordon, Guy M. Whipple, Milo B. Hillegas, Frederick E. Farrington, Harold A. Wilson, Frank Wenner, F. C. Brown, E. A. Harrington, W. J. Fisher.

The report of the treasurer for 1911 was presented by the permanent secretary and was accepted and ordered placed on file. The financial report of the permanent secretary was presented, accepted and ordered published.

Prof. H. E. Summers was elected secretary *pro tem* of the council.

The following resolutions were adopted:

1. WHEREAS, the will of the late Jane M. Smith, of Pittsburgh, Pa., a former life member of the American Association for the Advancement of Science, contains the following bequest, namely:

"Seventeenth: I give and bequeath to the National Geographic Society of Washington, D. C., the sum of five thousand dollars ($5,000); to the American Forestry Association of Washington, D. C., the sum of five thousand dollars ($5,000); and to the American Association for the Advancement of Science of Washington, D. C., the sum of five thousand dollars ($5,000). I hereby direct that each of said sums be invested and the net income thereof be used for the purpose of creating life members of said three organizations in cases where worthy and competent persons are not able to pay for such memberships."

Be it therefore *Resolved*, That the permanent secretary of the association be and hereby is authorized to accept from the executors of Jane M. Smith, deceased, the legacy of five thousand dollars ($5,000) bequeathed by her to the American Association for the Advancement of Science as a fund whose income may be used in the payment of life-membership commutations in the association.

Resolved, That this fund be designated as the Jane M. Smith Fund of the American Association for the Advancement of Science.

Resolved, That said sum of five thousand dollars ($5,000) or any instalments thereof as they may be received, be turned over to the treasurer of the association for investment in such manner as the council of the association may direct.

Resolved, That the application of the income of the Jane M. Smith Fund in conformity with the wishes of the testatrix be determined by the council of the association after reference to and recommendations from the committee on policy.

2. WHEREAS, more than fifty per cent. of the injurious insects and plant diseases of first-class importance in the United States have been imported accidentally or in the course of commerce from other countries; and

WHEREAS, the United States of America is the only country among the great nations of the world which has no national quarantine or inspection service looking towards the prevention of such introductions:

Therefore, be it *Resolved*, That, in the opinion of the American Association for the Advancement of Science, the passage of a national quarantine and inspection law directed against the introduction and establishment of injurious insects and plant diseases from other parts of the world is a great desideratum at the present time.

The permanent secretary was directed to transmit copies of this resolution to the president of the United States, the president of the senate, the speaker of the house and the chairman of the committee on agriculture of the house of representatives.

3. *Resolved*, That the permanent secretary be instructed to present for nomination to fellowship the names of those members who are members of affiliated societies, which have already been designated as having qualifications for membership equivalent to fellowship in the association.

4. *Resolved*, That the council of the American Association for the Advancement of Science approves the creation of a Bureau of Astronomy with a scientific chief, which shall have charge of the Naval Observatory and of the Nautical Almanac, and respectfully requests that every endeavor be made to put into operation this plan in the interests of astronomy in the United States.

The permanent secretary is requested to forward a copy of this resolution to the president of the United States, to the president of the senate and to the speaker of the house of representatives.

5. *Resolved*, That Section I be given permission to meet at times and places different from those of the general association, whenever the sectional committee and the committee on policy so agree.

6. *Resolved*, That the treasurer of the association be authorized to invest $20,000 of the permanent funds of the association in such interest-bearing securities as the committee on policy of the association may approve.

The council instructed the permanent secretary to publish in February or March next a list of officers and members of the association. The resignations of N. L. Britton and W. H. Welch from the Committee on Policy were accepted and D. T. MacDougal and W. J. Humphreys were appointed to fill the vacancies.

The council authorized an increase in compensation of the present assistant to the permanent secretary from $100 a month to $125 a month.

A resolution was adopted recommending that future delegates from the association to international conferences and other delegate bodies be requested to submit brief reports to the council.

A report from Dr. Hutton Webster, delegate to the First Races Congress was read and ordered filed, and the report of Dr. B. Shimek, delegate to the Third National Conservation Congress, was presented and placed on file.

The council resolved that the American Association for the Advancement of Science reaffirms its approval of the establishment of a National Department of Public Health.

Senator Theodore E. Burton, Dr. Wm. Trelease and Dr. Henry B. Ward were elected to fill vacancies in the council.

The following grants were allowed for the ensuing year:

To the Concilium Bibliographicum..... $200
To Mr. Frank C. Gates, A. B., for an investigation of the relation of transpiration to plant structure in bog plants, in collaboration with Professor F. C. Newcombe..... 100

The following amendments to the constitution were read as a formal notification in order that they may be acted upon next year under the provisions of the constitution:

Article 31. Substitute for existing article the following:

"The permanent secretary shall publish from time to time a list of officers and members of the association together with such other matter as the council may direct."

Article 3. In closing line omit the word "annual."

Article 6. Omit final sentence.

Article 19. Omit "in the annual volume of Proceedings."

Same article, omit "to the printing and distribution of the annual volume of Proceedings and all other."

Article 22. After "Education" add

"M, Agriculture," or

"M, Agriculture and Forestry," or

"M, Forestry,"

and

"And the council shall have power to create additional sections from time to time when deemed desirable."

Article 22. Lines 4 and 5, change from "H, Anthropology and Psychology" to "H, Anthropology."
Article 22. Abolish Section I.

At a meeting of the general committee held Friday evening, December 29, it was resolved to hold the next meeting at Cleveland, Ohio, the meeting to begin on the Monday of the week in which January 1, 1913, falls. It was further resolved to recommend to the next general committee that the meeting for 1913 be held in Atlanta, Georgia. It was further resolved that the committee looks with favor on the plan of holding a summer meeting on the Pacific coast in 1915.

The following officers were elected for the coming year:

President—Dr. Edward C. Pickering, director of the Harvard Astronomical Observatory.
Vice-presidents:
Sec. A—E. B. Van Vleck, University of Wisconsin.
Sec. B—Arthur Gordon Webster, Clark University.
Sec. C—W. Lash Miller, Toronto.
Sec. D—J. A. Holmes, Washington, D. C.
Sec. E—James E. Todd, University of Kansas.
Sec. F—William A. Locy, Northwestern University.
Sec. G—D. S. Johnson, Johns Hopkins University.
Sec. H—J. Walter Fewkes, Washington, D. C.
Sec. I—John Hays Hammond, New York.
Sec. K—J. J. R. Macleod, Cleveland, Ohio.
Sec. L—J. McKeen Cattell, Columbia University.
Secretaries of Sections:
Sec. B—W. J. Humphreys, Mount Weather, Va.
Sec. E—Geo. F. Kay, University of Iowa.
Sec. K—Waldemar Koch, University of Chicago.
General Secretary—H. E. Summers, Iowa State College.
Secretary of the Council—H. W. Springsteen, Western Reserve University.

JOHN ZELENY,
General Secretary.

REPORT OF THE TREASURER.

1911.

In compliance with Article 15 of the Constitution, and by direction of the Council, I have the honor to submit the following report, showing receipts, disbursements, and disposition of funds of the Association for the year ending December 31, 1911.

Receipts have come into the keeping of the Treasurer from interest on invested funds to the aggregate amount of $642.31.

Disbursements made in accordance with the direction of the Council amount to an aggregate of $512.94.

The total amount of funds of the Association deposited in banks and subject to the order of the Treasurer December 31, 1911, is $21,394.59.

The details of receipts, disbursements, and disposition of funds are shown in the itemized statement on following pages.

DATED: *June 1, 1912.*

THE TREASURER IN ACCOUNT WITH THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

DR.

1911. Jan. 1.	To balance from last account		$21,265.22
	To interest on funds deposited in banks, follows:		
	From Cambridge Savings Bank, Cambridge, Mass	$42.86	
	From Emigrant Industrial Savings Bank, New York, N. Y	119.48	
	From Metropolitan Savings Bank, New York, N. Y	119.72	
	From Union Square Savings Bank, New York, N. Y	104.24	
	From United States Trust Co., New York, N. Y.*	148.04	
	From United States Trust Co., Washington, D. C.†	107.97	
			642.31
	Total		$21,907.53

*Interest up to October 28, 1911.
†Successor to International Banking Corporation.

THE TREASURER IN ACCOUNT WITH THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

CR.

1911.			
Feb. 15.	By grant paid to Geo. J. Peirce		$ 75.00
	By grant paid Concilium Bibliographicum Zoologicum		100.00
May 20.	By interest on 227 Life Memberships paid Permanent Secretary		337.94
Dec. 31.	By cash in banks as follows:		
	In Cambridge Savings Bank, Cambridge, Mass	$1,104.08	
	In Emigrant Industrial Savings Bank, New York, N. Y	3,094.24	
	In Metropolitan Savings Bank, New York, N. Y	3,106.49	
	In Union Square Savings Bank, New York, N. Y	3,061.71	
	In United States Trust Co., New York, N. Y	8,099.30	
	In United States Trust Co., Washington, D. C	2,780.94	
	In the Fifth Avenue Bank of New York, New York, N. Y	147.83	
			21,394.59
	Total		$21,907.53

I hereby certify that the foregoing account is correctly cast and properly vouched.

THEO. N. GILL,
Auditor.

REPORT OF THE PERMANENT SECRETARY.

The matters heretofore referred to in the report of the Permanent Secretary, in so far as they relate to the annual meeting, have been covered in the report of the executive proceedings prepared by the General Secretary, and duplication is avoided by omitting them under the present head.

The following is a comparative statement of the roll of members of record at the time of the annual meetings as noted:

	Surviving Founders.	Living Patrons.	Living Honorary Fellows.	Fellows.	Members.	Totals
Washington	3	2	3	1197	2787	3992
St. Louis	3	2	3	1195	2812	4005
Philadelphia	2	2	3	1253	2781	4041
New Orleans	2	2	3	1351	2963	4321
New York	2	2	3	1847	2644	4498
Chicago	2	2	2	1871	3237	5114
Baltimore	2	2	2	1969	4161	6136
Boston		2	1	2195	5732	7950
Minneapolis		2	1	2395	5614	8012
Washington		1	1	3065	4974	8041

L. O. HOWARD,
Permanent Secretary.

L. O. HOWARD, PERMANENT SECRETARY, IN FOR THE ADVANCE-

From November 1, 1910,

DR.

To balance from last account		$3,329.39
Annual dues for 1911	$20,387.50	
Annual dues for 1912	208.90	
Annual dues for previous years	300.00	
Admission fees	2,475.00	
Associate fees	18.00	
Life membership fees	941.00	
		24,330.40
Publications	$16.35	
Bindings	9.18	
Unclassified receipts, including interest, postage, treasurer's payment on *Science* subscriptions for Life Members	581.35	
		606.88
		$28,266.67

The foregoing account has been examined and found correct, the expenditures being supported by proper vouchers. The balance of $4,231.22 is with the following Washington, D. C., banks:

American National Bank	$1,261.28
American Security & Trust Co	2,969.94
	$4,231.22

THEO. N. GILL,
Auditor.

ACCOUNT WITH THE AMERICAN ASSOCIATION
MENT OF SCIENCE.

to October 31, 1911.

CR.

By publications:		
Proceedings, Volumes 59, 60, 61	$2,597.87	
Publishers *Science*	14,417.92	
Preliminary Announcement	123.25	
		$17,139.04
By expenses Minneapolis meeting:		
Secretaries' expenses and commutations	$742.97	
Badges, assistance and general expenses	77.45	
		820.42
By office expenses, including propaganda work:		
Postage	$1,666.64	
Extra clerical help	871.55	
Circulars, blanks, printing, expressage, telegrams, telephone, stationery, etc	837.80	
		3,375.99
By salaries:		
Permanent Secretary	$1,500.00	
Assistant Secretary	1,200.00	
		2,700.00
By balance to new account		4,231.22
		$28,266.67

THE SIXTY-FOURTH MEETING

CLEVELAND, OHIO.

December 30, 1912, to January 4, 1913.

PRESIDENTIAL ADDRESS.

For address of retiring President CHARLES E. BESSEY,* delivered at the Cleveland meeting, see *Science*, N. S. Vol. XXXVII, No. 940, January 3, 1913, pp. 1–13. Title: Some of the Next Steps in Botanical Science.

*Deceased.

OFFICERS OF SECTION A.

Vice-President and Chairman of the Section.
EDWARD B. VAN VLECK, Madison.

Secretary.
GEORGE A. MILLER, Urbana.

Member of Council.
EDGAR O. LOVETT, Houston.

Sectional Committee.
EDWIN B. FROST, Vice-President, 1912; E. B. VAN VLECK, Vice-President, 1913; G. A. MILLER, Secretary; E. W. BROWN, 1 year; WINSLOW UPTON, 2 years; E. R. SMITH, 3 years; C. S. HOWE, 4 years; F. B. LITTELL, 5 years.

Member of General Committee.
H. T. EDDY, Minneapolis.

For list of papers presented before this Section at the Cleveland meeting, see report of Secretary of Section A in *Science*, N. S. Vol. XXXVII, No. 941, January 10, 1913, pp. 76–77.

Owing to the absence of retiring Vice-President EDWIN B. FROST, his address on "The Spectroscopic Determination of Stellar Velocities, considered practically," was read by PROF. J. A. PARKHURST, and was published in *Popular Astronomy*, Vol. XXI, No. 4, April, 1913, Whole No. 204, pp. 189–207.

OFFICERS OF SECTION B.

Vice-President and Chairman of the Section.
ARTHUR G. WEBSTER, Worcester.

Secretary.
W. J. HUMPHREYS, Washington.

Member of Council.
THEODORE LYMAN, Cambridge.

Sectional Committee.
ROBERT A. MILLIKAN, Vice-President, 1912; ARTHUR G. WEBSTER, Vice-President, 1913; W. J. HUMPHREYS, Secretary; A. D. COLE, Preceding Secretary; A. P. CARMAN, 1 year; G. F. HULL, 2 years; E. L. NICHOLS, 3 years; ANTHONY ZELENY, 4 years; T. C. MENDENHALL, 5 years. *Ex officio:* W. F. MAGIE, President, American Physical Society; ERNEST MERRITT, Secretary, American Physical Society.

Member of General Committee.
F. A. SAUNDERS, Syracuse.

For address of retiring Vice-President ROBERT A. MILLIKAN, see *Science*, N. S. Vol. XXXVII, No. 943, January 24, 1913, pp. 119–133. Title: Atomic Theories of Radiation.

OFFICERS OF SECTION C.

Vice-President and Chairman of the Section.
W. LASH MILLER, Toronto.

Secretary.
C. H. HERTY, Chapel Hill.

Member of Council.
R. B. MOORE, Washington.

Sectional Committee.
FRANK K. CAMERON, Vice-President, 1912; W. LASH MILLER, Vice-President, 1913; CHARLES H. HERTY, Secretary; C. F. BURGESS, 1 year; W. D. BANCROFT, 2 years; W. L. DUDLEY,* 3 years; C. L. ALSBERG, 4 years; LAUDER W. JONES, 5 years. *Ex officio:* A. D. LITTLE, President, American Chemical Society; C. L. PARSONS, Secretary, American Chemical Society.

Member of General Committee.
W. D. BIGELOW, Washington.

(*No sessions of Section C were held at Cleveland and no papers were presented before the Section at this meeting.*)

*Deceased.

OFFICERS OF SECTION D.

Vice-President and Chairman of the Section.
J. A. HOLMES, Washington.

Secretary.
G. W. BISSELL, East Lansing.

Member of Council.
O. P. HOOD, Pittsburgh.

Sectional Committee.
C. S. HOWE, Vice-President, 1912; J. A. HOLMES, 1913; G. W. BISSELL, Secretary; A. H. BLANCHARD, 1 year; C. M. WOODWARD,* 2 years; W. J. HUMPHREYS, 3 years; G. O. SQUIER, 4 years; W. W. CROSBY, 5 years.

Member of General Committee.
WILLIAM BOWIE, Washington.

For list of papers presented before this Section at the Cleveland meeting, see report of Secretary of Section D in *Science*, N. S. Vol. XXXVII, No. 954, April 11, 1913, pp. 568–577.

(*Owing to the absence of retiring Vice-President Charles S. Howe, no vice-presidential address was delivered before this Section at the Cleveland meeting.*)

*Deceased.

OFFICERS OF SECTION E.

Vice-President and Chairman of the Section.
JAMES E. TODD, Lawrence.

Secretary.
GEORGE F. KAY, Iowa City.

Member of Council.
A. P. BRIGHAM, Hamilton.

Sectional Committee.
BOHUMIL SHIMEK, Vice-President, 1912; JAMES E. TODD, Vice-President, 1913; GEORGE F. KAY, Secretary; F. P. GULLIVER, Preceding Secretary; F. B. TAYLOR, 1 year; G. K. GILBERT, 2 years; C. W. HAYES, 3 years; A. G. LEONARD, 4 years; F. R. VAN HORN, 5 years. *Ex officio:* H. L. FAIRCHILD, President, G. S. A.; E. O. HOVEY, Secretary, G. S. A.; R. D. SALISBURY, President, A. A. G.; A. P. BRIGHAM, Secretary, A. A. G.

Member of General Committee.
U. S. GRANT, Evanston.

For list of papers presented before this Section at the Cleveland meeting, see report of Secretary of Section E in *Science*, N. S. Vol. XXXVII, No. 951, March 21, 1913, pp. 456–460.

For address of retiring Vice-President BOHUMIL SHIMEK, see *Science*, same volume, No. 953, April 4, 1913, pp. 501–509. Title: Significance of Pleistocene Mollusks.

OFFICERS OF SECTION F.

Vice-President and Chairman of the Section.
W. A. LOCY, Evanston.

Secretary.
MAURICE A. BIGELOW, New York.

Member of Council.
EDWIN LINTON, Washington, Pa.

Sectional Committee.
H. F. NACHTRIEB, Vice-President, 1912; W. A. LOCY, Vice-President, 1913; M. A. BIGELOW, Secretary; C. C. NUTTING, 1 year; EDWIN LINTON, 2 years; H. F. NACHTRIEB, 3 years; HENRY B. WARD, 4 years; A. M. REESE, 5 years.

Member of General Committee.
T. W. GALLOWAY, Decatur.

For list of papers presented before the joint session of this Section with the American Society of Zoologists (Central Branch) at the Cleveland meeting, see report of Secretary in *Science*, N. S. Vol. XXXVII, No. 946, February 14, 1913, pp. 261–274.

For address of retiring Vice-President HENRY F. NACHTRIEB, see *Science*, same volume, No. 945, February 7, 1913, pp. 199–205. Title: Section F—Is it Worth While?

OFFICERS OF SECTION G.

Vice-President and Chairman of the Section.
DUNCAN S. JOHNSON, Baltimore.

Secretary.
HENRY C. COWLES, Chicago.

Member of Council.
W. F. GANONG, Northampton.

Sectional Committee.
F. C. NEWCOMBE, Vice-President, 1912; DUNCAN S. JOHNSON, Vice-President, 1913; HENRY C. COWLES, Secretary; F. E. LLOYD, Preceding Secretary; R. A. HARPER, 1 year; D. T. MACDOUGAL, 2 years; H. M RICHARDS, 3 years; L. H. PAMMEL, 4 years; W. J. V. OSTERHOUT, 5 years. *Ex officio*: L. R. JONES, President, Botanical Society of America; GEORGE T. MOORE, Secretary, Botanical Society of America; G. P. CLINTON, President, American Phytopathological Society; C. L. SHEAR, Secretary, American Phytopathological Society.

Member of General Committee.
E. C. JEFFREY, Cambridge.

For list of papers presented before this Section at the Cleveland meeting, see report of Secretary of Section G in *Science*, N. S. Vol. XXXVIII, No. 966, July 4, 1913, p. 32.

For address of retiring Vice-President FREDERICK C. NEWCOMBE, see *Science*, N. S. Vol. XXXVII, No. 956, April 25, 1913, pp. 615–622. Title: The Scope and Method of State Natural History Surveys.

OFFICERS OF SECTION H.

Vice-President and Chairman of the Section.
J. WALTER FEWKES, Bureau of American Ethnology.

Secretary.
GEORGE GRANT MACCURDY, Yale University.

Member of Council.
ALES HRDLICKA, U. S. National Museum.

Sectional Committee.
GEORGE T. LADD, Vice-President, 1912; J. WALTER FEWKES, Vice-President, 1913; G. G. MACCURDY, Secretary; R. B. DIXON, 1 year; G. A. DORSEY, 2 years; G. B. GORDON, 3 years; A. M. TOZZER, 4 years; P. E. GODDARD, 5 years. *Ex officio:* J. A. LOMAX, President, American Folk-Lore Society; CHAS. PEABODY, Secretary, American Folk-Lore Society; EDWARD L. THORNDIKE, President, American Psychological Association; W. V. BINGHAM, Secretary, American Psychological Association.

Member of General Committee.
CHARLES PEABODY, Harvard University.

For list of papers presented before this Section at the Cleveland meeting, see report of Secretary of Section H in *Science*, N. S. Vol. XXXVII, No. 948, February 28, 1913, pp. 341–349.

For address of retiring Vice-President GEORGE T. LADD, see *Science*, same volume, No. 947, February 21, 1913, pp. 275–290. Title: The Study of Man.

OFFICERS OF SECTION I.

Vice-President and Chairman of the Section.
JOHN HAYS HAMMOND, New York.

Secretary.
SEYMOUR C. LOOMIS, New Haven.

Member of Council.
W. H. HALE, Brooklyn.

Sectional Committee.
J. PEASE NORTON, Vice-President, 1912; JOHN HAYS HAMMOND, Vice-President, 1913; SEYMOUR C. LOOMIS, Secretary; FRED C. CROXTON, Preceding Secretary; CHARLES A. CONANT, 1 year; IRVING FISHER, 2 years; JOHN F. CROWELL, 3 years; JOHN B. CLARK, 4 years; GERALD VAN CASTEEL, 5 years.

Member of General Committee.
WILLIAM R. LAZENBY, Columbus.

For address of retiring Vice-President J. PEASE NORTON, see *Science*, N. S. Vol. XXXVII, No. 944, January 31, 1913, pp. 159–170. Title: Comparative Measurements of the Changing Cost of Living.

OFFICERS OF SECTION K.

Vice-President and Chairman of the Section.
J. J. R. MACLEOD, Cleveland.

Acting Secretary.
J. J. R. MACLEOD (in place of Waldemar Koch, deceased).

Member of Council.
VICTOR C. VAUGHAN, Ann Arbor.

Sectional Committee.
WILLIAM T. PORTER, Vice-President, 1912; J. J. R. MACLEOD, Vice-President, 1913; J. J. R. MACLEOD, Acting Secretary; ELIAS P. LYON, 1 year; WM. J. GIES, 2 years; WM. H. HOWELL, 3 years; THOMAS G. LEE, 4 years; ————, 5 years.

Member of General Committee.
CH. WARDELL STILES, Washington.

For list of papers presented before Section K at the Cleveland meeting, including the joint sessions of the section with the American Physiological Society and American Society of Biological Chemists, see report of Secretary in *Science*, N. S. Vol. XXXVII, No. 945, February 7, 1913, pp. 232–235.

OFFICERS OF SECTION L.

Vice-President and Chairman of the Section.
J. McKeen Cattell, New York.

Secretary.
C. Riborg Mann, Chicago.

Member of Council.
C. H. Judd, Chicago.

Sectional Committee.
Edward L. Thorndike, Vice-President, 1912; J. McKeen Cattell, Vice-President, 1913; C. R. Mann, Secretary; C. H. Judd, 1 year; E. E. Brown, 2 years; John Dewey, 3 years; W. C. Bagley, 4 years; A. Ross Hill, 5 years.

Member of General Committee.
Edward C. Elliott, Madison.

For address of retiring Vice-President Edward L. Thorndike, see *Science*, N. S. Vol. xxxvii, No. 943, January 24, 1913, pp. 133–142. Title: Educational Diagnosis.

EXECUTIVE PROCEEDINGS

CLEVELAND MEETING.

December 30, 1912, to January 4, 1913.

EXECUTIVE PROCEEDINGS

Report of General Secretary.

The sixty-fourth meeting of the American Association for the Advancement of Science was held at Cleveland, Ohio, from December 30, 1912, to January 4, 1913, under the presidency of Dr. Edward Charles Pickering, director of the Astronomical Observatory of Harvard College, Cambridge, Mass.

The excellent arrangements made for the meetings, the good hotel and other public utilities of Cleveland, and unusually mild and pleasant weather through most of the week, combined to make the material environment one of the most agreeable experienced by the association. The number of members registered was 720, and in addition 150 from the affiliated societies; but as is well known this registration is always incomplete, especially in the case of members of affiliated societies who are not members of the American Association for the Advancement of Science. It is safe to say that the total in attendance must have exceeded 1,000.

The following societies, most of them affiliated with the American Association for the Advancement of Science, met in Cleveland at the same time:

Astronomical and Astrophysical Society of America.
American Mathematical Society.
American Physical Society.
American Society of Zoologists, Eastern and Central Branches.
American Association of Economic Entomologists.
Entomological Society of America.
American Nature Study Society.
School Garden Association of America.
American Microscopical Society.
Botanical Society of America.
American Phytopathological Society.
Botanists of the Central States.
Society for Horticultural Science.
American Association of Official Horticultural Inspectors.
Association of Official Seed Analysts.
American Psychological Association.
American Society of Biological Chemists.
American Society for Pharmacology and Experimental Therapeutics.
American Association of Anatomists.
American Physiological Society.
American Federation of Teachers of the Mathematical and Natural Sciences.
American Society of Naturalists.
Society of the Sigma Xi.

The opening general session held on the evening of Monday, December 30, in the ball room of the Hotel Statler, was called to order by the retiring president, Dr. Charles E. Bessey, who introduced the president-elect, Dr. Edward C. Pickering. Addresses of welcome were given by Hon. Newton D. Baker, mayor of Cleveland, Dr. Chas. F. Thwing, president of the

Western Reserve University, and Dr. F. M. Comstock, acting president of the Case School of Applied Science. Responses were made by President Pickering. The address of Mayor Baker was especially noteworthy as embodying ideals for the future of Cleveland which aroused the heartiest appreciation in the minds of all his hearers. Perhaps the strongest assurance that Cleveland will ultimately reach the eminent position predicted by him is the fact that it already has the foresight to elect such men to its highest offices. The annual address was then delivered by the retiring president of the association, Dr. Charles Edwin Bessey on "Some of the Next Steps in Botanical Science." It is printed in the issue of *Science* for January 3, 1913. The general session then adjourned and was followed by a reception to the members of the association and affiliated societies.

The annual addresses by retiring vice-presidents were made as follows:

MONDAY AFTERNOON.

Vice-president Shimek, before the Section of Geology and Geography. Title: Significance of the Pleistocene Mollusks.

TUESDAY AFTERNOON.

Vice-president Frost, before the Section of Mathematics and Astronomy. Title: The Spectroscopic Determination of Stellar Velocities, Considered Practically.

Vice-president Nachtrieb, before the Section of Zoology. Title: Section F—Is It Worth While?

Vice-president Newcombe, before the Section of Botany. Title: The Scope of State Natural History Surveys.

Vice-president Millikan, before the Section of Physics. Title: Atomic Theories of Radiation.

WEDNESDAY AFTERNOON.

Vice-president Porter, before the Section of Physiology and Experimental Medicine. Title: On the Function of Individual Cells in Nerve Centers.

Vice-president Thorndike, before the Section of Education. Title: Educational Diagnosis.

Vice-president Ladd, before the Section of Anthropology and Psychology. Title: The Study of Man.

THURSDAY AFTERNOON.

Vice-president Norton, before the Section of Social and Economic Science. Title: Comparative Measurements of the Changing Cost of Living.

Other addresses worthy of especial note were the following:

On Tuesday evening, Dr. W. J. Humphreys, of the U. S. Weather Bureau, gave an illustrated lecture, complimentary to the members of the American Association for the Advancement of Science and the affiliated societies and to the residents of Cleveland and vicinity on the subject of "Across the United States with the European Geographers."

On Monday afternoon, President Benjamin M. Davis, of the American Nature Study Society, gave an address entitled "A Summary of the Study of Agricultural Instruction in Rural Schools."

President A. B. Macallum, of the American Society of Biological Chemists, gave an address on Monday on "The Energy of Muscular Contraction: Thermodynamic or Chemodynamic."

Dr. Edward Lee Thorndike gave his address on Tuesday, as president of the American Psychological Association, on the subject of "Ideo-motor Action."

President W. T. Macoun, of the Society for Horticultural Science, also gave his address on Tuesday on the subject "The Relation of Climate to Horticulture."

On Wednesday evening, Dr. Philip P. Calvert, of the Entomological Society of America, gave a public address on the subject "An Entomologist in Costa Rica."

On Wednesday, President W. D. Hunter, of the American Association of Economic Entomologists, gave an address on the subject "Insects and Human Diseases."

On Wednesday afternoon, President John A. Lomax, of the Folk-Lore Society, gave an address on "Stories of an African Prince."

On Wednesday evening, Professor W. G. Farlow gave the address, as the retiring president of the Botanical Society of America, on "A Comparison of the Present Conditions in Botany with those in the Early Seventies."

On Thursday evening, Dr. T. J. Headlee gave his annual address, as president of the American Association of Official Horticultural Inspectors, on the subject of "The Federal Plant Quarantine Law."

On Thursday evening, Professor Edwin G. Conklin gave the annual address as president of the American Society of Naturalists on "Heredity and Responsibility."

A number of symposia and sessions devoted to matters of public interest were held by various sections and affiliated societies. Among these may be mentioned:

A symposium under the auspices of the American Society of Biological Chemists on "Some Recent Applications of Physical Chemistry in Biology."

A symposium under the auspices of the Botanical Society of America on "Permeability and Osmotic Pressure."

A symposium by the Phytopathological Society on "International Phytopathological Problems."

A symposium in charge of the American Society of Naturalists on "Adaptation."

The section on Social and Economic Science held a symposium on some economic problems of current interest.

A general interest program on sound and sound waves was held under the auspices of Section B.

A general interest program devoted largely to broad educational problems, including a discussion of the National University, was held under the auspices of Section L.

The Council met daily. Among the chief matters of business transacted were the following:

Seventy-five new members were elected. Two hundred and fifty-five members were elected fellows.

A report from the committee on policy was adopted, providing for the appointment of a committee of five to consider the future of Section C.

The amendment to the constitution, proposed last year, and providing for the establishment of "Section M. Agriculture," was adopted.

Amendments to the constitution were also proposed as follows, in order that they may be acted upon next year under the provisions of the constitution:

Article 22—Amend by omitting "*Mechanical Science and*" after the title "*D*," so as to read: "*D—Engineering.*"

Article 22—After "Section M. Agriculture" add "*The council shall have power to create additional sections from time to time, and to discontinue, combine, or rearrange existing sections.*"

The financial report of the permanent secretary was read, accepted and ordered printed.

The council adopted the following resolutions, relating to the proposed meeting at San Francisco in 1915:

Resolved, That a committee be appointed for the proposed San Francisco meeting of the association in 1915, this committee to be known as "The Committee on the Pacific Coast Meeting."

The president later appointed on this committee the following:

Wm. Wallace Campbell, Sc.D., LL. D., director of the Lick Observatory, Mt. Hamilton, Cal., *chairman;* John Casper Branner, Ph.D., LL.D., professor of geology, Leland Stanford University; Wm. Alanson Bryan, president Pacific Scientific Institution, Honolulu; Henry Smith Carhart, Sc.D., LL.D., Pasadena, Cal.; Charles Lincoln Edwards, Ph.D., University of Southern California, Los Angeles, Cal.; Professor Wm. Trufant Foster, president of Reed College, Portland, Ore.; Geo. Ellery Hale, Sc.D., LL.D., director of the Mt. Wilson Observatory, Pasadena, Cal.; Mellen Woodman Haskell, Ph.D., professor of mathematics, University of California; Eugene Woldemar Hilgard, Ph.D., emeritus director of the College of Agriculture, University of California; Geo. Holmes Howison, LL.D., professor of philosophy, University of California; Oliver Peebles Jenkins, professor of physiology, Stanford University; David Starr Jordan, M.D., Ph.D., LL.D., president of Stanford University; Thos. Franklin Kane, Ph.D., president of the University of Washington; Lyman Vernon Kellogg, professor of entomology, Stanford University; Chas. Atwood Kofoid, Ph.D., professor of zoology, University of California; Alfred L. Kroeber, Ph. D., Affiliated Colleges, San Francisco, Cal.; Andrew Cowper Lawson, professor of geology and mineralogy, University of California; E. Percival Lewis, Ph. D., professor of physics, University of California; Jas. Harvey McBride, M.D., Pasadena, Cal.; Daniel Trembly MacDougal, Ph.D., LL.D., Desert Botanical Laboratory, Tucson, Ariz.; Lillien J. Martin, professor of psychology, Stanford University; John Campbell Merriam, Ph.D., professor of paleontology, University of California; Agnes Claypool Moody, Ph.D., Berkeley, Cal.; John Muir, LL.D., Martinez, Cal.; Wm. Emerson Ritter, Ph. D., director of the Marine Biological Station, San Diego, Cal.; Harris Joseph Ryan, professor of electrical engineering, Stanford University; Fernando Sanford, professor of physics, Stanford University; William Albert Setchell, Ph.D., professor of botany, University of California; John M. Stillman, Ph. D., professor of chemistry, Stanford University; Benjamin Ide Wheeler, president of the University of California.

The committee on policy presented the following which was adopted:

Resolved, That it be recommended that the council authorizes the committee on the Pacific Coast meeting proposed for 1915, to hold in the name of the association meetings of its members resident in that region, for the purpose of considering the relations of the association to the exposition in question, and, if desirable, for the presentation of scientific programs. The expenses incurred shall be met from funds in the hands of the permanent secretary to such extent as may be approved by the committee on policy.

The following grant was allowed:

To the Concilium Bibliographicum..... $200

A report of progress in the study of fish scales was received from Prof. Theo. D. A. Cockerell to whom a grant of $75.00 had been made.

A report was received from Mr. Charles Peabody, delegate of the association to the XIV Congress International d'Anthropologie et Archeologie Prehistorique, which was held in Geneva, September 9–14, 1912.

The council passed the following resolution on "Expert Testimony," presented jointly by Dr. M. G. Lloyd and Dr. J. A. Holmes:

Resolved, That a special committee of five be appointed by the president to collect and study data covering the practise in different countries relative to the employment of expert testimony in court procedure, and to cooperate in joint committee with representatives of other national organizations in studying this question with a view to submitting recommendations for new state and national legislation concerning the same;

That the permanent secretary of the association extend to other national organizations interested in this subject an invitation from this association to appoint a member on said joint committee, and to cooperate further with this association in taking such action relative to this matter as will best promote public interest;

That this special committee of five shall report both its findings and the findings of the joint committee, and also such action as may be taken by other organizations, to the council of the American Association for the Advancement of Science at its meeting in January, 1914.

The council adopted the following, introduced by Professor H. B. Ward:

Resolved, That the council refer to the committee on policy the question of granting to secretaries of sections, the general secretary, and the secretary of the council, a mileage allowance in addition to the hotel allowance now made, and that the council empower the committee to take such action as may seem wise after investigation of the subject.

The following resolution, introduced by Dr. J. A. Holmes, was adopted by the council:

Resolved, That a special committee of five be appointed by the president to consider and report to the committee on policy a plan for the more rapid increase in the membership of the association.

That the committee on policy is hereby authorized to employ an associate secretary at a salary not to exceed $3,000 per annum, whose traveling expenses shall also be paid out of the treasury not to exceed $800 per annum and whose special duty it shall be to carry forward this extension work.

The committee on policy is hereby authorized to adopt, if necessary, such method as it may deem best for collecting additional funds for meeting such expenditure as may be needed.

The president later appointed on this committee the following: Messrs. J. A. Holmes, Chas. Baskerville, Hugh M. Smith, H. B. Ward, H. W. Springsteen.

The council adopted the following resolutions, introduced by Prof. J. McK. Cattell:

Resolved, That the council of the American Association for the Advancement of Science requests the educational institutions, government bureaus and other agencies engaged in scientific research to send one or more delegates to the annual convocation week meetings of the association and its affiliated societies, and that when possible the traveling expenses of the delegates be paid by the institutions which they represent.

Resolved, That a committee of three be appointed by the chair to draw up a list of institutions to which this resolution, together with a suitable letter, shall be sent by the permanent secretary.

The following were elected as members of the council to serve for three years: Messrs. J. McK. Cattell, J. M. Coulter and N. L. Britton.

At a meeting of the general committee held Thursday evening, January 2, invitations for future meetings were received from Atlanta, Philadelphia, Nashville, St. Louis, San Francisco, Leland Stanford University of California, Portland, Seattle, Niagara Falls, Cincinnati, Columbus and Denver.

It was resolved to hold the next meeting in Atlanta, Georgia. It was further resolved to recommend to the next general committee that the meeting for 1914 be held at Philadelphia, and that a summer meeting be held at San Francisco in 1915.

The following officers were elected for the coming year:

President: E. B. Wilson, Columbia University, New York.
Vice-presidents:
Section A—Frank Schlesinger, Allegheny Observatory.
Section B—A. D. Cole, Ohio State University.
Section C—A. A. Noyes, Massachusetts Institute of Technology.
Section D—O. P. Hood, U. S. Bureau of Mines, Pittsburgh.
Section E—J. S. Diller, U. S. Geological Survey.
Section F—A. G. Mayer, Carnegie Institution of Washington.
Section G—H. C. Cowles, University of Chicago.
Section H—W. B. Pillsbury, University of Michigan.
Section L—P. P. Claxton, U. S. Commissioner of Education.
General Secretary: H. W. Springsteen, Western Reserve University.
Secretary of the Council: W. A. Worsham, Jr., University of Georgia.
Secretaries of Sections:
Section A—F. R. Moulton, University of Chicago.
Section D—A. H. Blanchard, Columbia University.
Section F—H. V. Neal, Knox College.
Section G—W. J. V. Osterhout, Harvard University.
Section H—George G. MacCurdy, Yale University.
Section L—S. A. Courtis, Detroit, Michigan.
Place of next meeting: Atlanta, Georgia.
Date of next meeting: Convocation Week, 1913–14.

At the general session, held Friday morning at Western Reserve University, the following resolutions were adopted:

Resolved, That the American Association for the Advancement of Science extend to the authorities of Western Reserve University and to those of the Case School of Applied Science, to the Board of Education and the Director of Public Schools, to the Mayor of Cleveland, to the local committee in charge of the arrangements for the third Cleveland meeting of the association, now about to close, and especially to the ladies' reception committee, and to the authorities of the different industrial plants which have been opened to the inspection of members, the hearty thanks of the association for the admirable arrangements made, the excellent facilities offered, and the delightful courtesy and hospitality which have been extended by all and which have been highly instrumental in making this third Cleveland meeting one of the most successful which the association has held in recent years.

H. E. SUMMERS,
General Secretary.

REPORT OF THE TREASURER.

1912.

In compliance with Article 15 of the Constitution, and by direction of the Council, I have the honor to submit the following report, showing receipts, disbursements and disposition of funds of the Association for the year ending December 31, 1912.

Receipts have come into the keeping of the Treasurer from two sources, namely, from Life Membership commutations and from interest on invested funds. The total amount of these receipts is $2,337.84.

Disbursements made in accordance with the direction of the Council amount to an aggregate of $668.50.

The total amount of funds of the Association deposited in banks and subject to the order of the Treasurer December 31, 1912, is $23,063.93.

The details of receipts, disbursements and disposition of funds are shown in the following itemized statement.

DATED: *August 1, 1913.*

THE TREASURER IN ACCOUNT WITH THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

DR.

1912.			
Jan. 1.	To balance from last account		$21,394.59
Mar. 22.	To 13 Life Memberships		650.00
Dec. 27.	To 19 Life Memberships		950.00
Dec. 31.	To interest on funds deposited in banks, as follows:		
	From Cambridge Savings Bank, Cambridge, Mass	$40.40	
	From Emigrant Industrial Savings Bank, New York, N. Y	119.88	
	From Metropolitan Savings Bank, New York, N. Y	120.00	
	From Union Square Savings Bank, New York, N. Y	105.00	
	From United States Trust Co., New York, N. Y	240.06	
	From United States Trust Co., Washington, D. C	112.50	
			737.84
	Total		$23,732.43

I hereby certify that the foregoing account is correctly cast and properly vouched.

THEO. N. GILL,
Auditor.

THE TREASURER IN ACCOUNT WITH THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

CR.

1912.			
June 6.	By grant paid Frank C. Gates		$100.00
June 6.	By grant paid Concilium Bibliographicum		200.00
June 6.	By interest on 244 Life Memberships paid to Permanent Secretary		368.50
Dec. 31.	By cash in banks as follows:		
	In Cambridge Savings Bank, Cambridge, Mass	$1,040.40	
	In Emigrant Industrial Savings Bank, New York, N. Y	3,114.12	
	In Metropolitan Savings Bank, New York, N. Y	3,120.00	
	In Union Square Savings Bank, New York, N. Y	3,105.00	
	In United States Trust Co., New York, N. Y	8,339.36	
	In United States Trust Co., Washington, D. C	2,893.44	
	In Fifth Avenue Bank of New York, New York, N. Y	1,451.61	
			23,063.93
	Total		$23,732.43

L. O. HOWARD, PERMANENT SECRETARY, IN FOR THE ADVANCE-

From November 1, 1911,

DR.

To balance from last account		$4,231.22
To receipts from members:		
Annual dues, 1912	$20,477.00	
Annual dues, 1913	208.00	
Annual dues, previous years	438.00	
Admission fees	2,420.00	
Associate membership fees	42.00	
Life membership fees	450.00	
		24,035.00
To other receipts:		
Sale of publications	51.16	
Bindings	12.00	
Interest	66.98	
Payment from Treasurer towards subscriptions for *Science* for Life Members	368.50	
Miscellaneous receipts, including postage advanced by foreign members for *Science*	144.86	
		643.50
		$28,909.72

The foregoing account has been examined and found correct, the expenditures being supported by proper vouchers. The balance of $7,836.40 is with the following Washington, D. C., banks:

American Security and Trust Co	$3,915.42
American National Bank	3,920.98

THEO. N. GILL,
Auditor.

ACCOUNT WITH THE AMERICAN ASSOCIATION
MENT OF SCIENCE.

to October 31, 1912.

CR.

By publications:		
Publishers *Science*		$14,471.25
By expenses Washington meeting, including expenses of sectiona secretaries		397.92
By propaganda work outside of Washington office		196.43
By office expenses, including propaganda work:		
Postage	$1,048.84	
Permanent office supplies	165.27	
Printing, stationery and forms	507.02	
Extra help	598.00	
Miscellaneous expenses, including telegrams, expressage, etc	88.59	
		2,407.72
By salaries:		
Permanent Secretary	$1,500.00	
Assistant Secretary	1,450.00	
		2,950.00
By miscellaneous disbursement:		
Treasurer for permanent fund		650.00
By balance to new account		7,836.40
		$28,909.72

THE SIXTY-FIFTH MEETING

ATLANTA, GEORGIA.

December 29, 1913, to January 3, 1914.

PRESIDENTIAL ADDRESS.

For address of retiring President EDWARD C. PICKERING, see *Science*, N. S. Vol. XXXIX, No. 992, January 2, 1914, pp. 1–9. Title: The Study of the Stars.

OFFICERS OF SECTION A.

Vice-President and Chairman of the Section.
FRANK SCHLESINGER, Allegheny.

Secretary.
F. R. MOULTON, Chicago.

Member of Council.
JOHN A. BRASHEAR, Allegheny.

Sectional Committee.
Vice-President, Cleveland, E. B. VAN VLECK; Vice-President, Atlanta, FRANK SCHLESINGER; Secretary, F. R. MOULTON; Preceding Secretary, G. A. MILLER; WINSLOW UPTON, 1 year; E. R. SMITH, 2 years; C. S. HOWE, 3 years; F. B. LITTELL, 4 years; JOHN C. FIELDS, 5 years.

Member of General Committee.
T. M. FOCKE, Cleveland.

For address of retiring Vice-President EDWARD B. VAN VLECK, see *Science*, N. S. Vol. XXXIX, No. 995, January 23, 1914, pp. 113–124. Title: The Influence of Fourier's Series upon the Development of Mathematics.

OFFICERS OF SECTION B.

Vice-President and Chairman of the Section.
ALFRED D. COLE, Columbus.

Secretary.
W. J. HUMPHREYS, Washington.

Member of Council.
THEODORE LYMAN, Cambridge.

Sectional Committee.
Vice-President, Cleveland, ARTHUR G. WEBSTER; Vice-President, Atlanta, ALFRED D. COLE; Secretary, W. J. HUMPHREYS; Preceding Secretary, A. D. COLE; GORDON F. HULL, 1 year; EDWARD L. NICHOLS, 2 years; ANTHONY ZELENY, 3 years; T. C. MENDENHALL, 4 years; ————, 5 years. *Ex officio:* B. OSGOOD PIERCE,* President, American Physical Society; A. D. COLE, Secretary, American Physical Society.

Member of General Committee.
F. A. SAUNDERS, Syracuse.

For list of papers presented before this Section at the Atlanta meeting, see report of Secretary of Section B in *Science*, N. S. Vol. XXXIX, No. 1015, June 12, 1914, pp. 881–882.

For address of retiring Vice-President ARTHUR GORDON WEBSTER, see *Science*, same volume, No. 993, January 9, 1914, pp. 42–51. Title: The Methods of the Physical Sciences: To what are they Applicable?

*Deceased.

OFFICERS OF SECTION C.

Vice-President and Chairman of the Section.
CARL L. ALSBERG, Washington.

Secretary.
JOHN JOHNSTON, Washington.

Member of Council.
RICHARD B. MOORE, Denver.

Sectional Committee.
Vice-President, Cleveland, W. LASH MILLER; Vice-President, Atlanta, CARL L. ALSBERG; Secretary, JOHN JOHNSTON; Preceding Secretary, CHARLES H. HERTY; W. D. BANCROFT, 1 year; W. L. DUDLEY,* 2 years; C. L. ALSBERG, 3 years; LAUDER W. JONES, 4 years; ————, 5 years. *Ex officio:* ARTHUR D. LITTLE, President, American Chemical Society; CHARLES L. PARSONS, Secretary, American Chemical Society.

Member of General Committee.
W. D. BIGELOW, Washington.

For list of papers presented before the joint session of this Section with the Georgia Section of the American Chemical Society at the Atlanta meeting, see report of Secretary in *Science*, N. S. Vol. XXXIX, No. 1001, March 6, 1914, pp. 362–364.

(Owing to the absence of retiring Vice-President W. LASH MILLER, there was no vice-presidential address delivered before this Section at the Atlanta meeting.)

*Deceased.

OFFICERS OF SECTION D.

Vice-President and Chairman of the Section.
O. P. HOOD, Pittsburgh.

Secretary.
ARTHUR H. BLANCHARD, New York.

Member of Council.
G. W. BISSELL, East Lansing.

Sectional Committee.
Vice-President, Cleveland, JOSEPH A. HOLMES; Vice-President, Atlanta, O. P. HOOD; Secretary, A. H. BLANCHARD; Preceding Secretary, GEORGE W. BISSELL; C. M. WOODWARD,* 1 year; W. J. HUMPHREYS, 2 years; GEORGE O. SQUIER, 3 years; W. W. CROSBY, 4 years; WILLIAM BOWIE, 5 years.

Member of General Committee.
WILLIAM BOWIE, Washington.

*Deceased.

OFFICERS OF SECTION E.

Vice-President and Chairman of the Section.
JOSEPH S. DILLER, Washington.

Secretary.
GEORGE F. KAY, Iowa City.

Member of Council.
A. N. WINCHELL, Madison.

Sectional Committee.
Vice-President, Cleveland, JAMES E. TODD; Vice-President, Atlanta, J. S. DILLER; Secretary, GEORGE F. KAY; Preceding Secretary, F. P. GULLIVER; G. K. GILBERT, 1 year; C. W. HAYES, 2 years; A. G. LEONARD, 3 years; F. R. VAN HORN, 4 years; CHARLES H. GORDON, 5 years. *Ex officio:* EUGENE A. SMITH, President, Geological Society of America; EDMUND O. HOVEY, Secretary, Geological Society of America; HENRY G. BRYANT, President, Association of American Geographers; ALBERT P. BRIGHAM, Secretary, Association of American Geographers.

Member of General Committee.
EDWIN B. BRANSON, Columbia.

For list of papers presented before this Section at the Atlanta meeting, see report of Secretary of Section E in *Science*, N. S. Vol. XXXIX, No. 1002, March 13, 1914, pp. 398–405.

For address of retiring Vice-President JAMES E. TODD, see *Science*, same volume, No. 999, February 20, 1914, pp. 263–274. Title: The Pleistocene History of the Missouri River.

OFFICERS OF SECTION F.

Vice-President and Chairman of the Section.
ALFRED G. MAYER, Tortugas.

Secretary.
HERBERT V. NEAL, Tufts College.

Member of Council.
C. C. NUTTING, Iowa City.

Sectional Committee.
Vice-President, Cleveland, W. A. LOCY; Vice-President, Atlanta, ALFRED G. MAYER; Secretary, HERBERT V. NEAL; Preceding Secretary, M. A. BIGELOW; EDWIN LINTON, 1 year; H. F. NACHTRIEB, 2 years; HENRY B. WARD, 3 years; A. M. REESE, 4 years; JACOB REIGHARD, 5 years.

Member of General Committee.
HENRY B. WARD, Urbana.

For list of papers presented before this Section at the Atlanta meeting, see report of Secretary in *Science*, N. S. Vol. XXXIX, No. 1001, March 6, 1914, pp. 364–370.

OFFICERS OF SECTION G.

Vice-President and Chairman of the Section.
HENRY C. COWLES, Chicago.

Secretary.
W. J. V. OSTERHOUT, Cambridge.

Member of Council.
LEWIS R. JONES, Madison.

Sectional Committee.
Vice-President, Cleveland, DUNCAN S. JOHNSON; Vice-President, Atlanta, HENRY C. COWLES; Secretary, W. J. V. OSTERHOUT; Preceding Secretary, H. C. COWLES; D. T. MACDOUGAL, 1 year; H. M. RICHARDS, 2 years; L. H. PAMMEL, 3 years; W. J. V. OSTERHOUT, 4 years; F. C. NEWCOMBE, 5 years. *Ex officio:* D. H. CAMPBELL, President, Botanical Society of America; GEORGE T. MOORE, Secretary, Botanical Society of America; F. C. STEWART, President, American Phytopathological Society; C. L. SHEAR, Secretary, American Phytopathological Society.

Member of General Committee.
ROBERT A. HARPER, New York.

For list of papers presented before this Section at the Atlanta meeting, see report of Secretary of Section G in *Science*, N. S. Vol. XXXIX, No. 1002, March 13, 1914, p. 405.

For address of retiring Vice-President DUNCAN S. JOHNSON, see *Science*, N. S. Vol. XXXIX, No. 1000, February 27, 1914, pp. 299–319. Title: The Evolution of a Botanical Problem.

OFFICERS OF SECTION H.

Vice-President and Chairman of the Section.
WALTER B. PILLSBURY, Ann Arbor.

Secretary.
GEORGE G. MACCURDY, New Haven.

Acting Secretary.
E. K. STRONG, JR., New York.

Member of Council.
CLARK WISSLER, New York.

Sectional Committee.
Vice-President, Cleveland, J. WALTER FEWKES; Vice-President, Atlanta, WALTER B. PILLSBURY; Secretary, GEORGE G. MACCURDY; G. A. DORSEY, 1 year; GEORGE B. GORDON, 2 years; A. M. TOZZER, 3 years; P. E. GODDARD, 4 years; R. S. WOODWORTH, 5 years. *Ex officio:* JOHN A. LOMAX, President, American Folk-Lore Society; CHARLES PEABODY, Secretary, American Folk-Lore Society; HOWARD C. WARREN, President, American Psychological Association; W. V. BINGHAM, Secretary, American Psychological Association; ROLAND B. DIXON, President, American Anthropological Association; GEORGE G. MACCURDY, Secretary, American Anthropological Association.

Member of General Committee.
CHARLES PEABODY, Cambridge.

For list of papers presented before this Section at the Atlanta meeting, see report of Acting Secretary of Section H in *Science*, N. S. Vol. XXXIX, No. 1006, April 10, 1914, pp. 546–550.

(Owing to the absence of retiring Vice-President FEWKES, there was no vice-presidential address delivered before Section H at the Atlanta meeting.)